

## Curso gestión de datos ISCIII

Semana 1. Lunes y miércoles 28 y 30 de junio de 10 a 13 h ( o de 9 a 12) y viernes 2 de julio de 11- 13 h repaso y dudas

Semana 2. Lunes y miércoles 5 y 7 de julio de 10 a 13 h ( o de 9 a 12) y viernes 9 de julio de 11- 13 h repaso y dudas

**Remedios Melero. IATA-CSIC, Valencia, España**



## **CONTENIDOS / PROGRAMA:**

Tema 1 : Fundamentos de la gestión de datos de investigación.

- Los datos de investigación: Definiciones y tipología.
- Ciencia abierta y datos abiertos. Datos FAIR.
- Ventajas y dificultades de poner datos en abierto.

Tema 2: Aspectos legales y éticos.

- Requerimientos en la gestión de datos de investigación.
- Normativa de GDPR.
- Licencias para compartir datos.

Tema 3: El ciclo de vida de los datos.

- Organización y descripción.
- Almacenaje y preservación.
- Publicación y difusión.

Tema 4: El plan de gestión de datos (PGD).

- Qué es un PGD.
- Recursos y herramientas para generar PGD.
- 

Práctica: Elaboración de un plan de gestión de datos.

CAMPUS

07 juni 2021 - 09:00 door Heather Montague

## 'Open science is just science done right'

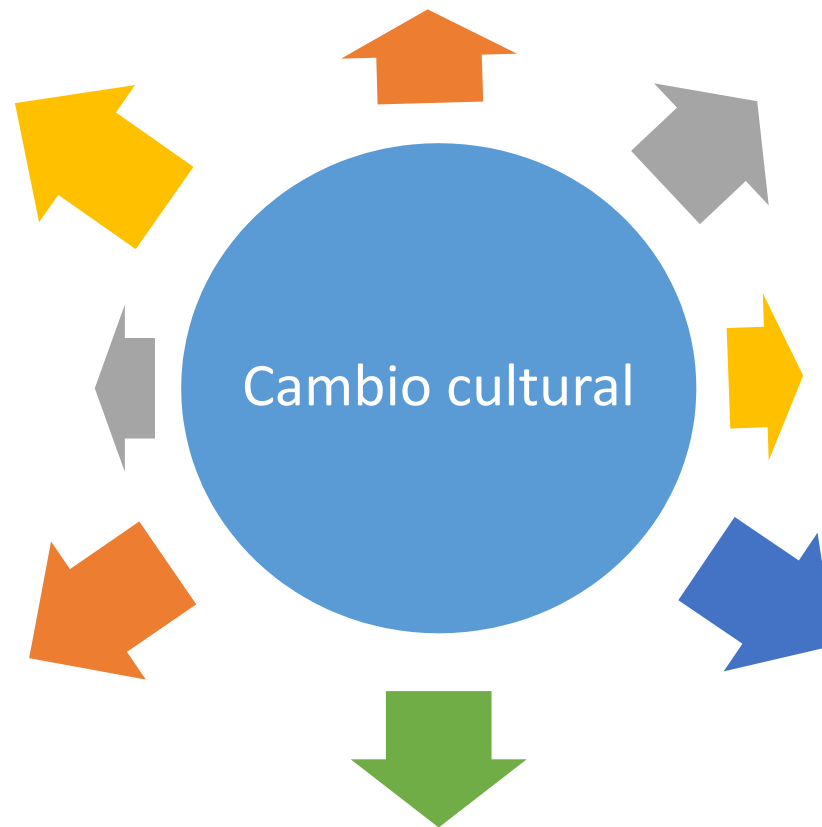


▲ Anke Versteeg: "Open science is a means to work together with other disciplines more easily, to share your work with others, to work more in teams, to work more internationally." (Photo: Nicole Will)

Open science is just science done right, according to Anke Versteeg. She says we should be proud to share what's going on here at TU Delft.

*"That means that you are managing all of your work right from the start, managing your data, thinking about licences, your own rights, about connecting with others. You have to do a lot of research management, which helps you in the end."*

## Open science... una visión holística



*“Contribuye en tu institución o centro de investigación a implementar el paradigma de Open Science, desde una visión holística, integrando todas las partes y procesos que afecten a la producción, comunicación y preservación de los resultados de la investigación financiada con fondos públicos” (directrices Maredata)*



# Open science

EVERYONE ON THE ROAD TO OPEN SCIENCE



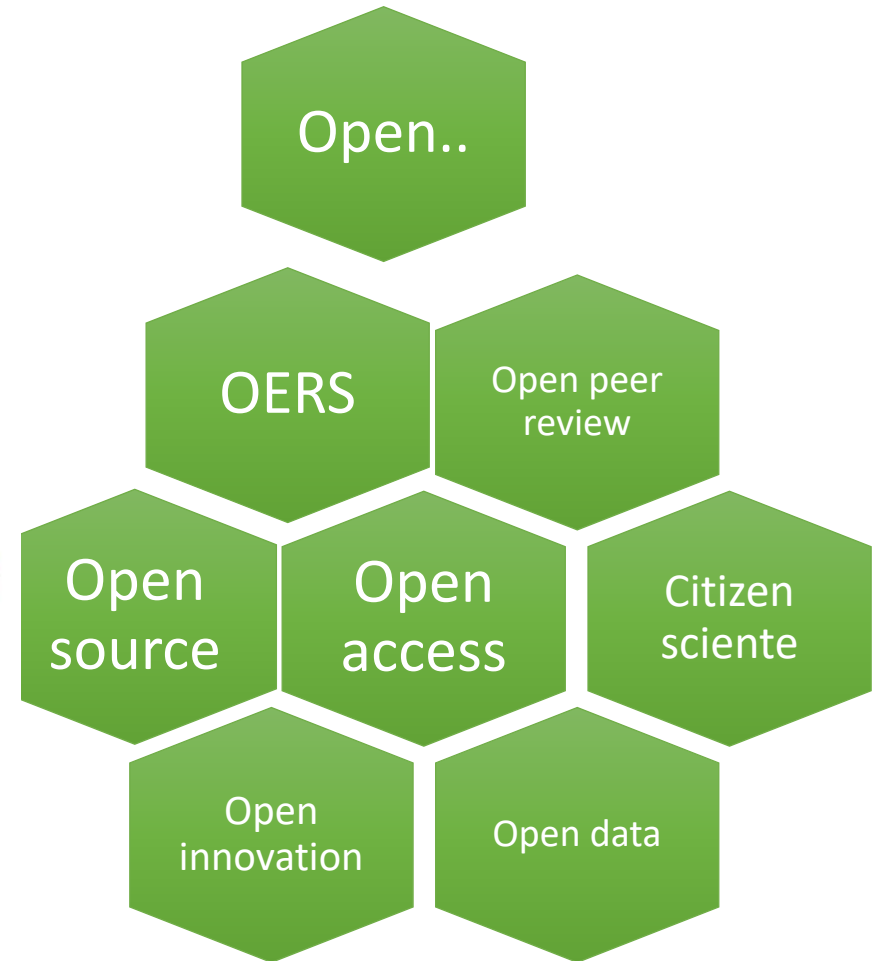
OPEN EDUCATIONAL RESOURCES

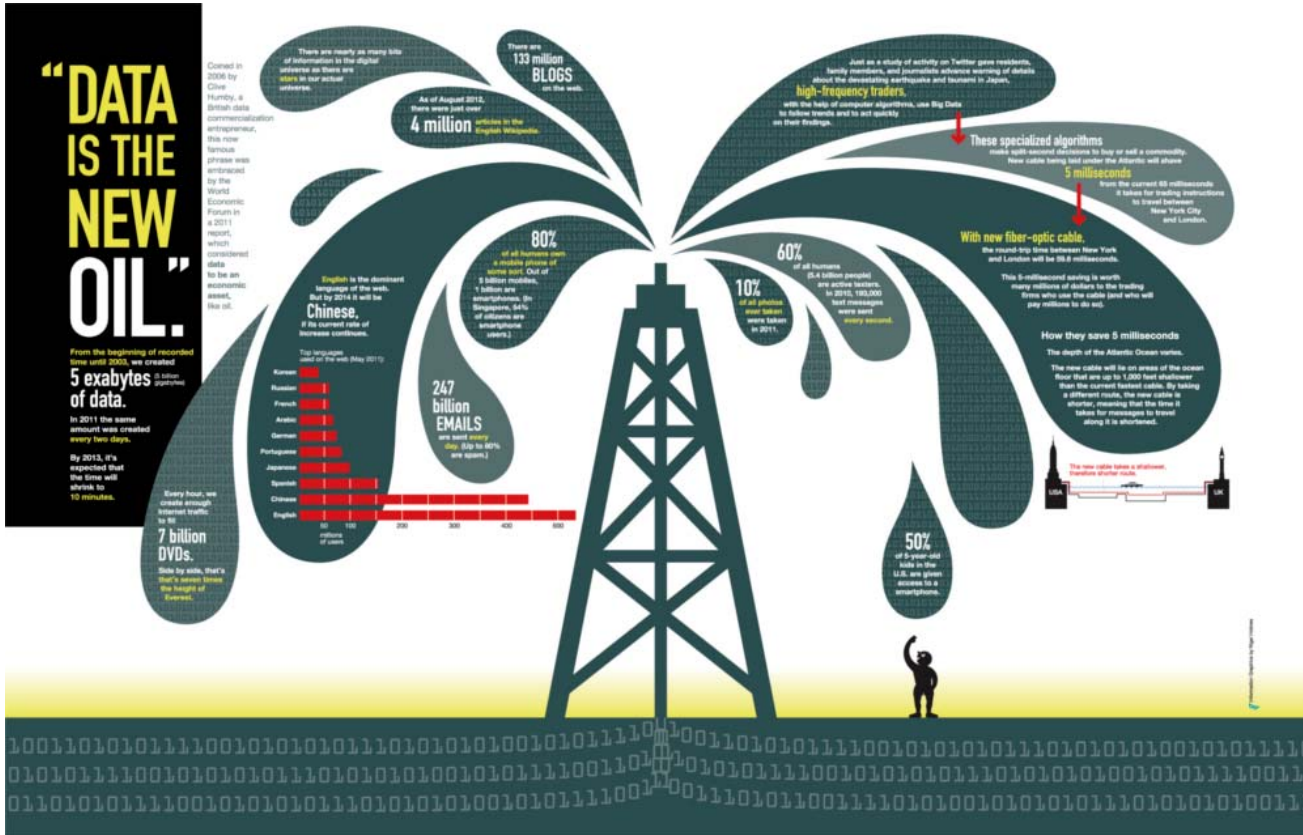


OPEN DATA



CITIZEN SCIENCE





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# DATA IS THE NEW OIL

but do you have the resource to refine it?

## Algunas razones para compartir datos:

- Promueve la innovación y potenciales nuevos usos
- Conduce a la colaboración entre usuarios de datos y los creadores de datos
- Maximiza la transparencia y la fiabilidad
- Permite la verificación de los resultados de investigación
- Reduce costes al evitar duplicación de datos
- Aumenta el impacto y la visibilidad de la investigación
- Promueve la investigación de donde salieron los datos y sus publicaciones
- Puede generar un reconocimiento directo a los investigadores como cualquier otro resultado de la investigación
- Genera nuevos datos a partir de los originales

## 10 Simple Rules for the Care and Feeding of Scientific Data

Alyssa Goodman et al. (2013)

<http://journals.plos.org/ploscompbiol/article?id=10.1371/journal.pcbi.1003542>

- Regla 1. Amar tus datos y ayudar a los demás a amarlos también
- Regla 2. Compartir tus datos online con un identificador permanente
- Regla 3. Hacer ciencia con el concepto de reutilización en mente
- Regla 4. Publicar el contexto de obtención de los datos
- Regla 5. Vincular sus datos con sus publicaciones siempre que sea posible
- Regla 6. Publicar el código fuente (incluso los pequeños *bits*)
- Regla 7. Decidir cómo quiere que se le reconozca
- Regla 8. Fomentar y utilizar repositorios de datos
- Regla 9. Recompensar a los colegas que comparten sus datos adecuadamente
- Regla 10. Ser impulsor de la ciencia de los datos

# Why is DATA ACCESS Important?



## Innovation

Encouraging diversity of analysis and opinion; synthesizing results from individual projects into a larger whole; coordinating the application of scientific, social, and business knowledge

**Collaboration**  
between related projects and Grand Challenges programs, researchers and institutions, and among diverse disciplines to foster greater productivity and creativity.



## Efficiency

Preventing unnecessary duplication of effort, and enabling secondary analyses and enhancement of existing data, permitting the redirection of resources to maximize the impact of investments.

**Accountability**  
Encouraging independent verification and analysis, thereby improving data quality and outputs.



## Capacity Strengthening

Facilitating the education of new researchers, and enabling broader access to data for secondary analysis and stimulation of bold and innovative ideas.

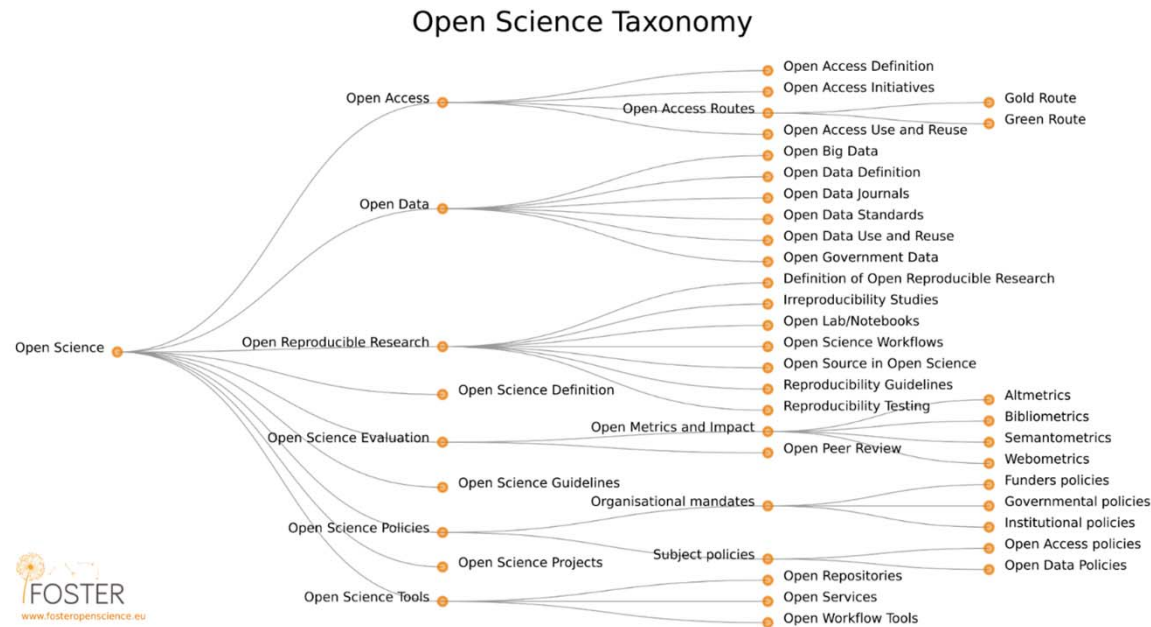
[www.grandchallenges.ca/wp-content/uploads/20161006\\_GCC-Open-Access-Guide-for-Innovators\\_EN.pdf](http://www.grandchallenges.ca/wp-content/uploads/20161006_GCC-Open-Access-Guide-for-Innovators_EN.pdf)

Por qué.....

- Innovación
- Colaboración
- Eficiencia
- Responsabilidad
- Transparencia
- Generación de nuevo conocimiento



# Contexto



<https://www.fosteropenscience.eu/taxonomy/term/7>

## Ley Propiedad Intelectual (LPI)

Artículo 10. **Obras y títulos originales.**

1. *Son objeto de propiedad intelectual todas las creaciones originales literarias, artísticas o científicas expresadas por cualquier medio o soporte, tangible o intangible, actualmente conocido o que se invente en el futuro, comprendiéndose entre ellas:..... no se habla de datos, sí se menciona las bases de datos (derecho sui generis)*



# Motores para compartir y gestionar los dtos de investigación



**2. TRANSPARENCIA Y RENDICIÓN DE CUENTAS** de las ayudas concedidas y del proceso de concesión de las mismas, incluyendo:

- ...
- **ACCESO ABIERTO A RESULTADOS Y DATOS DE INVESTIGACIÓN** de las actividades de investigación subvencionadas con recursos públicos. **Los trabajos publicados en revistas científicas financiados a través del Plan Estatal se depositarán en repositorios, institucionales y/o internacionales, en abierto** teniendo en cuenta las características específicas de las distintas materias, en cumplimiento de lo establecido en el Artículo 37 de la **Ley 14/2011, de 1 de junio, de la Ciencia, la Tecnología y la Innovación** y de las recomendaciones vinculadas a la agenda europea en materia de acceso abierto y ciencia en abierto. Con el fin de impulsar el acceso a datos de investigación, los proyectos de I+D+i financiados **podrán incluir, con carácter optativo, un plan de gestión de los datos de investigación** que se depositarán en repositorios institucionales, nacionales y/o internacionales tras la finalización del proyecto y trascurrido el plazo establecido en las correspondientes convocatorias. No obstante, se respetarán todas las situaciones en las que los mismos han de protegerse por razones de confidencialidad, seguridad, protección, etc., o cuando los mismos sean necesarios para la explotación comercial de los resultados obtenidos. Finalmente, **en la evaluación curricular de los investigadores así como en la evaluación ex post de las actuaciones financiadas se tendrán en cuenta los trabajos publicados en abierto en repositorios institucionales y temáticos, nacionales y/o internacionales, y la puesta de los datos de su investigación en abierto**, de modo que puedan ser utilizados para replicar y reproducir los análisis y resultados de investigación.





Resolución de la Presidencia de la Agencia Estatal de Investigación por la que se aprueba la convocatoria de tramitación anticipada para el año 2020 del procedimiento de concesión de ayudas a «Proyectos de I+D+i», en el marco del Programa Estatal de Generación de Conocimiento y Fortalecimiento Científico y Tecnológico del Sistema de I+D+i y del Programa Estatal de I+D+i Orientada a los Retos de la Sociedad, del Plan Estatal de Investigación Científica y Técnica y de Innovación 2017-2020.

[Enlace](#) (11-11-2020)

### ***Obligaciones de las entidades beneficiarias***

Artículo 19

...

**Los datos de investigación se deberán depositar** en repositorios institucionales, nacionales y/o internacionales **antes de que transcurran dos años desde la finalización del proyecto**, con el fin de impulsar el acceso a datos de investigación de las ayudas financiadas.

3. Toda referencia a alguno de los proyectos objeto de las presentes ayudas en cualquier medio de difusión deberá incluir que el mismo ha sido financiado por la Agencia Estatal de Investigación. En el caso de que existan limitaciones de espacio, particularmente en publicaciones, se mencionará de la forma indicada en el artículo 9.3.a) (REFERENCIA DEL PROYECTO / AEI / 10.13039/501100011033).

Aprox 500 palabras!!!

### 3. IMPACTO ESPERADO DE LOS RESULTADOS

En la aplicación informática de solicitud deberá introducir una descripción de un máximo de **3.500 caracteres** sobre el impacto esperado de los resultados del proyecto, cuyo contenido podrá ser publicado a efectos de difusión si el proyecto fuera financiado en esta convocatoria.

En este apartado se recomienda incluir:

a)

b) ..y/o resultados susceptibles de **transferencia**

**Previsión del plan de gestión de datos de investigación** en el que se indique qué datos se van a recoger o generar (tipologías y formatos), cómo será el acceso (quién, cómo y cuándo se podrá acceder a los datos) y en qué repositorio está previsto que se depositen. En el caso de datos que estén sometidos a la reglamentación de protección de los datos personales o de aspectos éticos, indicar cómo se gestionarán. En el caso de los proyectos que resulten financiados, durante la ejecución del proyecto y junto al informe final se podrá solicitar un plan de gestión de datos formal completo

ESTRATEGIA ESPAÑOLA DE CIENCIA, TECNOLOGÍA E INNOVACIÓN 2021-2027  
<https://www.ciencia.gob.es/stfls/MICINN/Ministerio/FICHEROS/EECTI-2021-2027.pdf>

Principios...(p.24)

La Responsabilidad social y económica de la I+D+I a través de la **incorporación de la ciencia ciudadana y la aplicación de la co-creación y las políticas de acceso abierto**, así como el alineamiento de la I+D+I con los valores, necesidades y expectativas sociales.

(p.32) La ciencia excelente y abierta constituye uno de los pilares del *Objetivo 4* (Generación de conocimiento y liderazgo científico). **El impulso a un modelo de Ciencia Abierta favorecerá la generación de conocimiento de alta calidad e impacto, así como su transmisión a la sociedad**, elemento que se relaciona directamente con el *Eje de actuación 5* (fomentar y apoyar la generación de capacidades científicas e innovadoras en los agentes del SECTI).

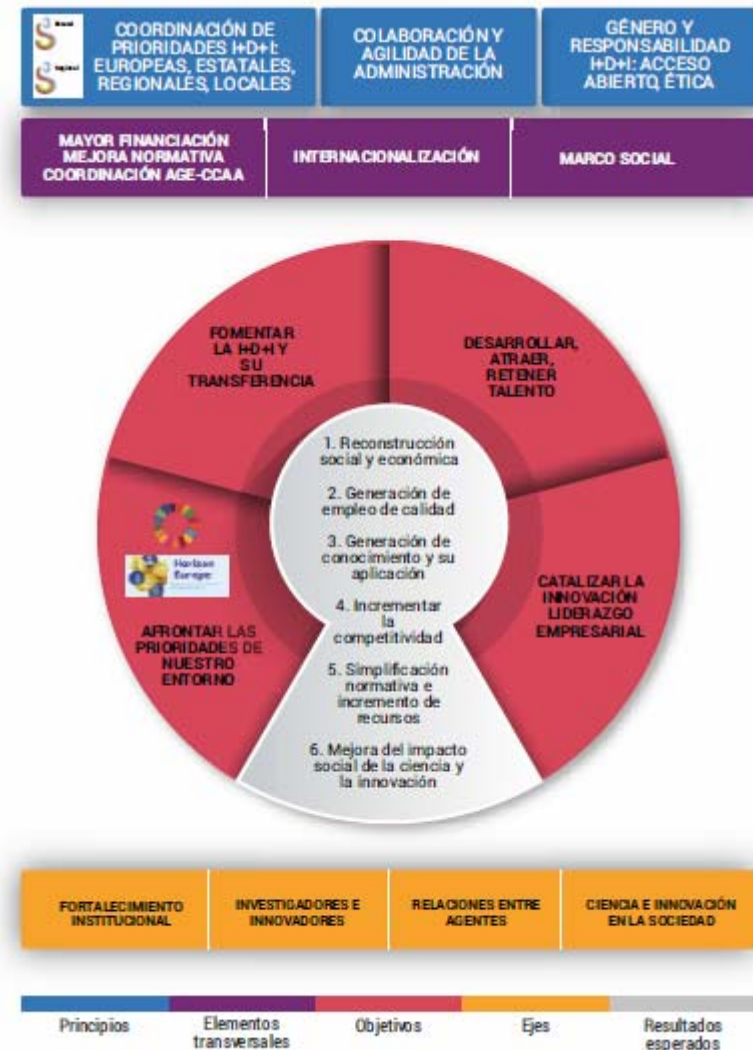


Figura 3. Modelo de actuación de la EECTI 2021-2027



(p.33) La coordinación de los agentes financiadores permitirá mejorar los instrumentos de financiación y los mecanismos de articulación de los PEICTI, **empleando para ello recursos humanos con formación en el acceso abierto a datos, microdatos, publicaciones, código (software) y, en general, a todos los resultados de la investigación financiada con fondos públicos**

(p. 36) El apoyo a la ciencia de excelencia, elemento básico del modelo de EECTI, fomentará, **en consonancia con las directrices de la UE, el acceso abierto a los resultados de investigación, permitiendo que los datos sean accesibles, interoperables y reutilizables** (su acrónimo en inglés *FAIR*). La difusión en el ámbito científico, junto al esfuerzo llevado a cabo por los repositorios abiertos, facilitará la accesibilidad a los avances científicos y fomentará la divulgación y comunicación científica hacia la sociedad, objetivo que se persigue en el *Eje de actuación 14.....*

Este nuevo escenario, en donde **el dato científico adquiere un valor relevante**, estará acompañado de otras actuaciones que permitan, por ejemplo, desarrollar infraestructuras de datos y sus servicios, apoyando así la producción de datos FAIR y su integración en la Nube Europea,

## Tres disposiciones a tener en cuenta de alta relevancia....

**RECOMENDACIÓN (UE) 2018/790 DE LA COMISIÓN.** de 25 de abril de 2018 relativa al acceso a la información científica y a su preservación.

<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32018H0790>

- Acceso abierto a las publicaciones científicas
- **Gestión de los datos de investigación, incluyendo el acceso abierto**
- Preservación y reutilización de la información científica
- Infraestructuras para la ciencia abierta
- Capacidades y competencias
- Incentivos y recompensas
- Diálogo multilateral sobre la ciencia abierta a nivel nacional, europeo e internacional
- Coordinación estructurada de los Estados miembros a nivel de la UE y seguimiento de la presente Recomendación

**“Los Estados miembros deben establecer y aplicar políticas claras (tal y como se describe en los planes nacionales de acción) para la gestión de los datos resultantes de la investigación financiada con fondos públicos, incluido el acceso abierto. “**

Resolución legislativa del Parlamento Europeo, de 4 de abril de 2019, sobre la Directiva del Parlamento Europeo y del Consejo relativa a la reutilización de la información del sector público (versión refundida) (COM(2018)0234 – C8-0169/2018 – 2018/0111(COD))

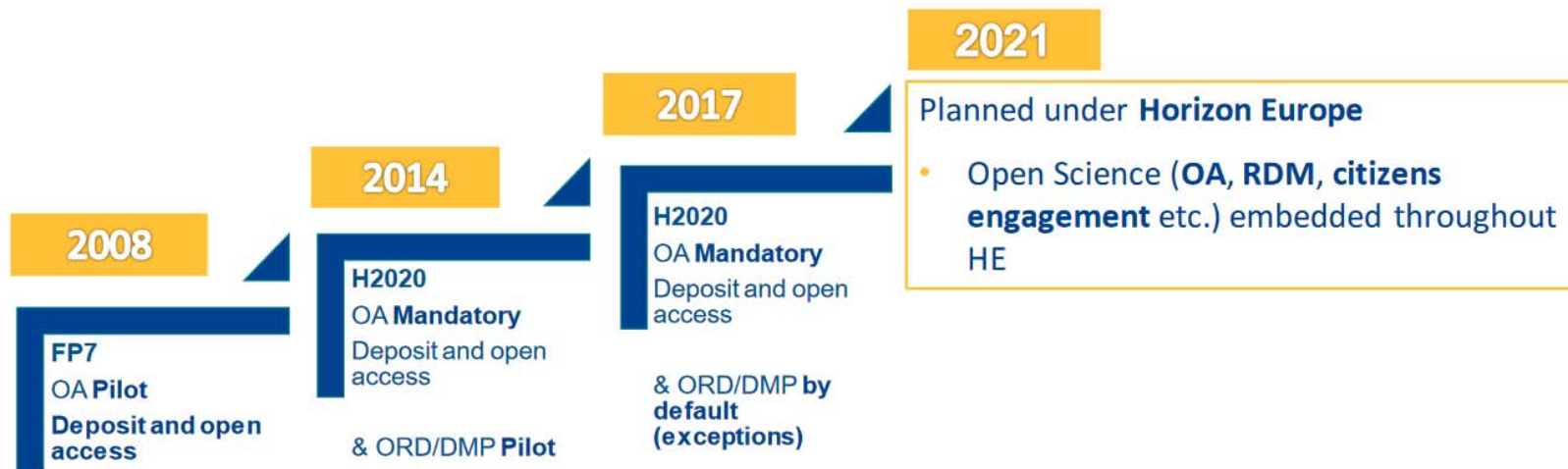
Tendrá que trasponerse en el plazo de 2 años y modificar la Ley 18/2015, de 9 de julio, sobre reutilización de la información del sector público (trasposición de la directiva 2013/37/UE).

*“Con arreglo a las políticas nacionales de acceso abierto, los datos de la investigación financiada públicamente serán abiertos por defecto. Sin embargo, en este contexto, deben tenerse debidamente en cuenta las inquietudes relacionadas con la privacidad, la protección de datos personales, la confidencialidad, la seguridad nacional, los intereses comerciales legítimos, como los secretos comerciales, y los derechos de propiedad intelectual de terceros, conforme al principio «tan abiertos como sea posible, tan cerrados como sea necesario». Por otra parte, los datos de investigación a los que no puede accederse por motivos de seguridad nacional, defensa o seguridad pública no deben estar cubiertos por la presente Directiva.”*

.....

*“Los Estados miembros pueden hacer extensiva la aplicación de la presente Directiva a los datos de investigación puestos a disposición del público a través de **infraestructuras de datos distintas de los registros, a través de publicaciones de acceso abierto o en forma de fichero adjunto a un artículo, a un artículo de datos o a un artículo en una revista especializada en datos.** Los documentos distintos de los datos de investigación deben seguir estando excluidos del ámbito de la presente Directiva.”*

## Evolution of open science policy across FPs



<https://ec.europa.eu/research/participants/docs/h2020-funding-guide/other/event201009.htm>



REGLAMENTO (UE) 2021/695 DEL PARLAMENTO EUROPEO Y DEL CONSEJO de 28 de abril de 2021, por el que se crea el Programa Marco de Investigación e Innovación «Horizonte Europa», se establecen sus normas de participación y difusión, y se derogan los Reglamentos (UE) n.o 1290/2013 y (UE) n.o 1291/2013  
<https://eur-lex.europa.eu/legal-content/ES/TXT/HTML/?uri=CELEX:32021R0695&from=EN>

## Artículo 14

### **Ciencia abierta**

1. El Programa fomentará la ciencia abierta como enfoque del proceso científico basado en el trabajo de cooperación y la difusión de conocimientos, en particular de conformidad con los siguientes elementos que se garantizarán conforme al artículo 39, apartado 3, del presente Reglamento:

**a) acceso abierto a las publicaciones científicas derivadas de las investigaciones financiadas** con cargo al Programa;

**b) acceso abierto a los datos de investigación**, incluidas las publicaciones científicas subyacentes, de conformidad con el principio «**tan abierto como sea posible y tan cerrado como sea necesario**».

2. El principio de reciprocidad en la ciencia abierta se fomentará y alentará en todos los acuerdos de asociación y cooperación con terceros países, incluidos los firmados por los organismos financiadores a los que se haya confiado la gestión indirecta del Programa.

3. Se garantizará la gestión responsable de los datos de investigación en consonancia con los principios según los **cuales los datos deben ser fáciles de encontrar, accesibles, interoperables y reutilizables (en lo sucesivo, «principios FAIR»)**. Se prestará también atención a la conservación a largo plazo de los datos.



Horizon Europe will also introduce several new main features:

- A European Innovation Council (EIC) to help the EU become a frontrunner in market-creating innovation.
- New EU-wide research and innovation missions focusing on societal challenges and industrial competitiveness.
- Maximising the innovation potential across the EU.
- **The principle of 'open science' will become the modus operandi of Horizon Europe, requiring open access to publications and data.**
- A new generation of European Partnerships and increased collaboration with other EU programmes.



# Main elements of Open Science in Horizon Europe

## Horizon Europe Regulation

-  Open access to publications ensured (=no way around this! 😊 )
-  Open access to research data: 'as open as possible as closed as necessary'
-  Responsible management of research data: Data Management Planning, FAIR data, long-term preservation of data
-  Open science practices promoted and encouraged; may provide additional incentives or obligations to adhere to open science practices
-  May require additional obligations to use EOSC for storing and giving access to research data
-  Authors/beneficiaries must retain enough rights for open access
-  Exceptions to open access for research data described



# Ciencia abierta a lo largo del programa

## Ciencia abierta

Mejor difusión y explotación de los resultados de investigación e innovación, así como apoyo a la participación activa de la sociedad

**Acceso abierto obligatorio para las publicaciones:** los beneficiarios se asegurarán de que ellos o los autores conservan los derechos de la propiedad intelectual necesarios para cumplir los requisitos de acceso abierto.

**Garantizar el acceso abierto a los datos de investigación:** de conformidad con el principio «tan abierto como sea posible y tan cerrado como sea necesario»; plan obligatorio de gestión de datos para datos FAIR (fáciles de encontrar, accesibles, interoperables y reutilizables) y datos de investigación abiertos.

- Apoyo a las habilidades de los investigadores en materia de ciencia abierta, así como sistemas de recompensa.
- Uso de la Nube Europea de la Ciencia Abierta.



## ... Research Data Management (RDM)

- Establish and regularly update a **Data Management Plan**
- **Deposit data in a trusted repository** and provide **open access** through it
  - Deposit and open access **ASAP and per DMP**
  - For some actions, additional **obligation** to deposit in a repository that is **federated under EOSC**
- **CC BY** or **CC 0** (or equivalent) license required to open data
- **Exceptions to open access** (duly justified in the DMP; legitimate interests or constraints);
- **Information** via the repository about any other research output or any other tools and instruments needed to **re-use or validate the data**;
- **Metadata requirements** same as for publications (i.e. CCO and PIDs)
- **Costs for RDM** (for example data storage, processing and preservation) are **eligible**



## RESEARCH DATA - OPEN BY DEFAULT

Horizon 2020 grantees are required

take measures to ensure open access to the data underlying their scientific publications

provide open access to any other research data of their choice

Horizon 2020 grantees are encouraged to also share datasets beyond publication



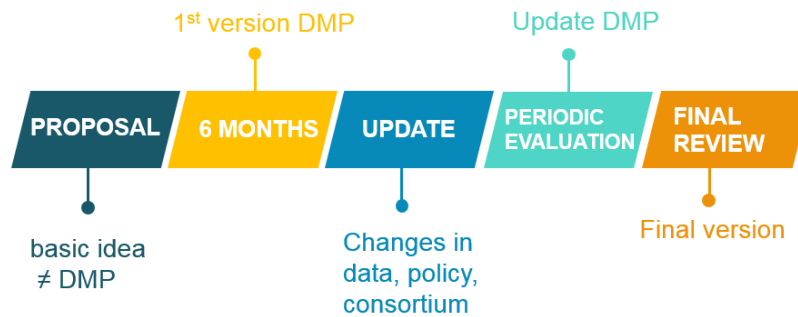
## RESEARCH DATA - OPEN BY DEFAULT

Data management costs are fully eligible for funding

No repository imposed: deposit data where you want



## Timeline



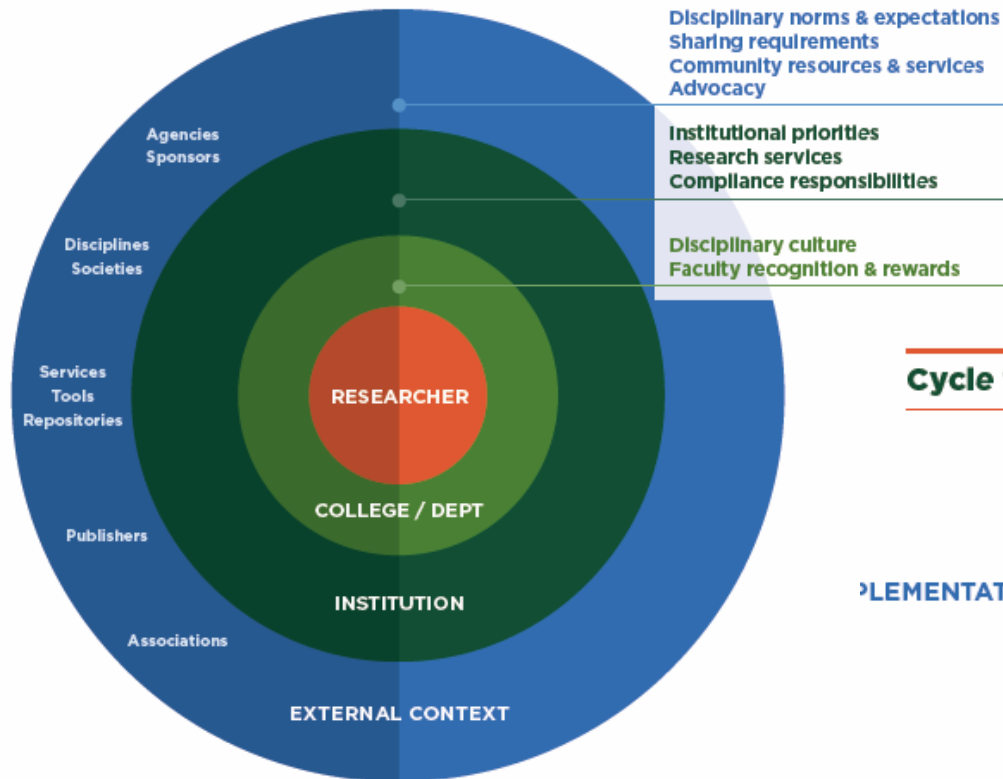
## RESEARCH DATA - OPEN BY DEFAULT

Projects must have



<https://www.openaire.eu/how-to-comply-to-h2020-mandates-for-data>

## Ecosystem Influencing researcher actions



Adapted from Austin, 2011, *Promoting evidence-based change in undergraduate education*, National Research Co.

Factores y agentes que pueden influir en el acceso a los datos de investigación

Guía de la Association of American Universities (AAU) and the Association of Public and Land-grant Universities

<https://www.aau.edu/accelerating-public-access-research-data>

## Cycle to Accelerate Public Access to Research Data



Refine priorities and implementation plan based on an assessment of institutional progress and changes in the external ecosystem.

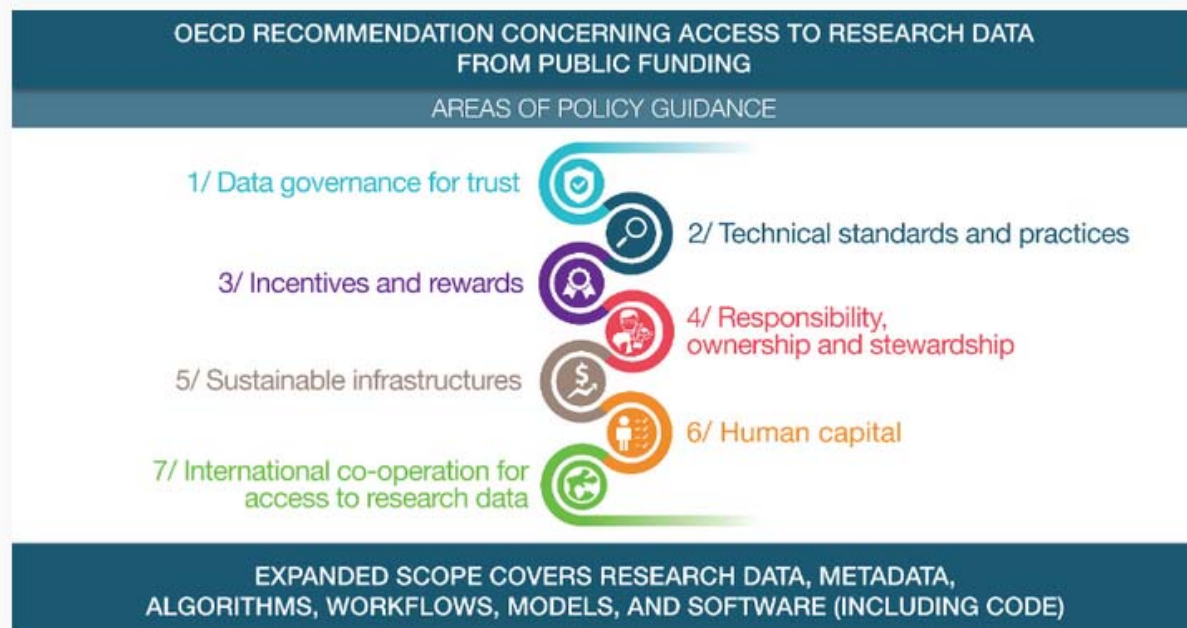
## Recommendation of the OECD Council concerning Access to Research Data from Public Funding

On 20 January 2021, the OECD Council adopted a revised [Council Recommendation on Access to Research Data from Public Funding](#). The legal instrument, in force since 2006, has been updated to address new technologies and policy developments, and provides policy guidance in seven areas shown in the figure below. In addition, the revision expands the scope to cover not only research data, but also related metadata, as well as bespoke algorithms, workflows, models, and software (including code), which are essential for their interpretation.

- > Find out more in our blog: [Making data for science as open as possible to address global challenges](#)
- > Policy brief: [Why open science is critical to combatting COVID-19](#)
- > Analytical report: [Enhanced Access to Publicly Funded Data for Science, Technology and](#)

### [Innovation](#)

- > [Open science initiatives relating to COVID-19](#)
- > [OECD work on open science](#)



Para otras políticas: Sherpa Juliet. <https://v2.sherpa.ac.uk/>

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### European Commission [Horizon 2020]

#### ^ Funder Information

Funder Name	European Commission [Horizon 2020] <small>(English)</small>
Funder URLs	<a href="http://ec.europa.eu/research/horizon2020/index_en.cfm">http://ec.europa.eu/research/horizon2020/index_en.cfm</a> <small>(English)</small>
Identifiers	FundRef DOI: 10.13039/100010661
Country	Belgium

#### ▾ Requires Open Access Archiving

#### ▾ Encourages Open Access Publishing

#### ▾ General Open Access Policy

#### ^ Encourages Open Data Archiving

Requirement	European Commission [Horizon 2020] <b>encourages</b> Open Data Archiving
Types of Data	Research Data Program Code Unspecified Data
When to archive	At the earliest possible opportunity
Where to archive	Any appropriate repository
Special Conditions	UNSPECIFIED
Policy links	Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020 [Policy]: <a href="http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf">http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf</a> Fact Sheet: Open access to publications and data in Horizon 2020: Frequently Asked Questions (FAQ) [Guide/FAQ]: <a href="http://www.iprhelppdesk.eu/sites/default/files/newsdocuments/Open_Access_in_H2020.pdf">http://www.iprhelppdesk.eu/sites/default/files/newsdocuments/Open_Access_in_H2020.pdf</a> Guidelines on Data Management in Horizon 2020 [Policy]: <a href="http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf">http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf</a>



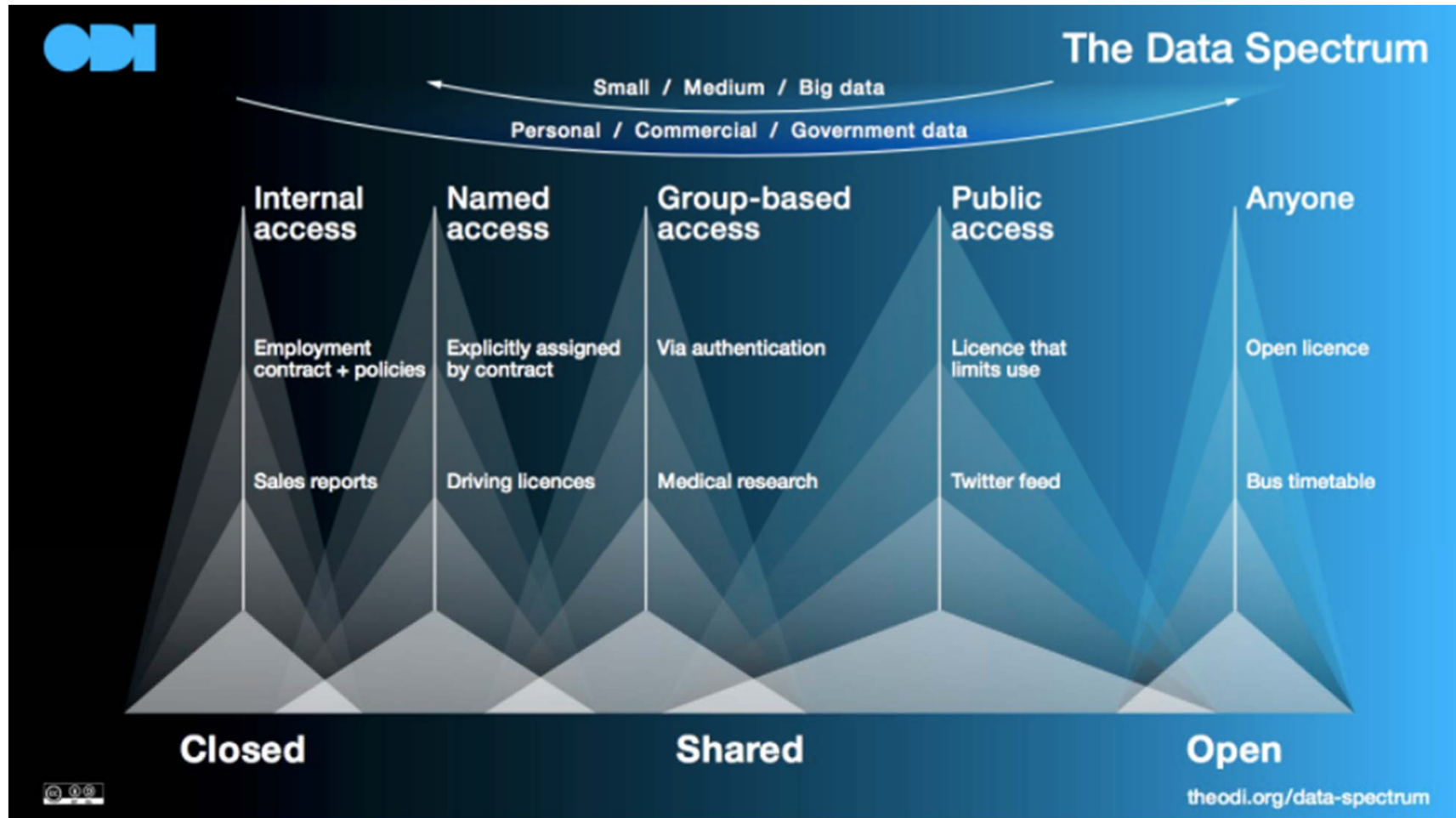
# Tipos de datos

## **Datos de investigación (*research data*)**

Información cuantitativa o cualitativa recogida por los investigadores en el curso de su trabajo obtenida de:

- La experimentación,
  - La observación,
  - La modelización,
  - Por medio de encuestas o entrevistas, u otros medios
  - .....
- 
- También derivada de la ya existente

**Facilitan la información necesaria para apoyar o validar los resultados o conclusiones de la investigación**



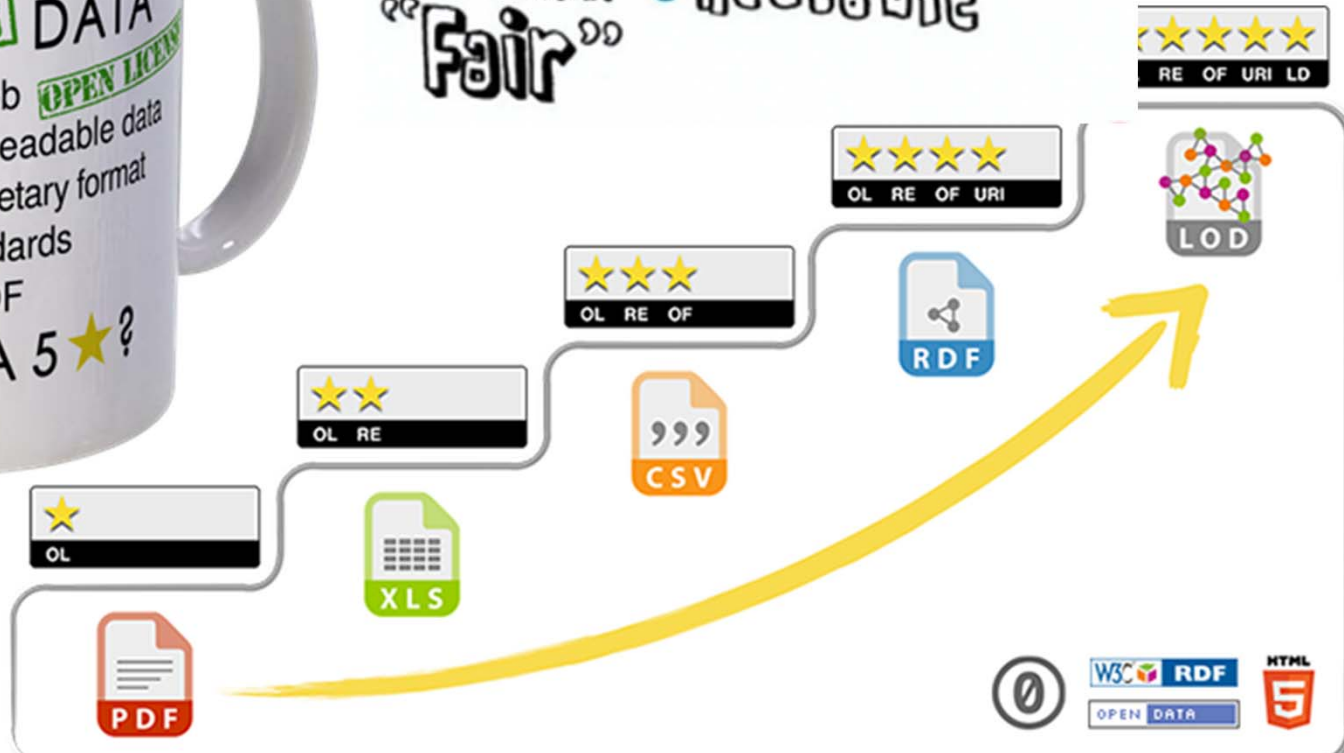


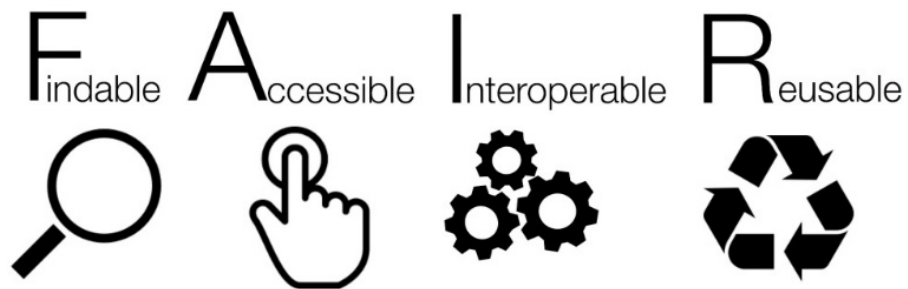
Open data must be accessible, useable, assessable and intelligible (definición de *Science as an Open Enterprise*, 2012 )



Open data  
is about  
MORE  
THAN  
DISCLOSURE  
it must be  
**Fair**

- Findable
- Accessible
- Interoperable
- Reusable





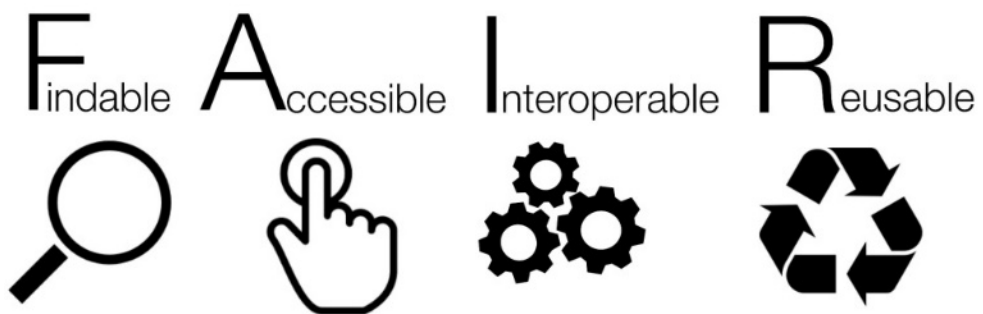
Principios FAIR (<https://www.force11.org/group/fairgroup/fairprinciples>)

### **Para ser localizable (*Findable*)**

- F1. A los (meta)datos se les debe asignar un identificador único y persistente.
- F2. Los datos se describen con metadatos enriquecidos.
- F3. (meta)datos se registran o indexan en un sistema que disponga de motor de búsqueda.
- F4. Los metadatos contienen uno para el identificador del dataset.

### **Para ser accesible (*Accesible*):**

- A1. Los (meta)datos se pueden recuperar mediante su identificador utilizando un protocolo de comunicación estandarizado.
  - A1.1 El protocolo es abierto, gratuito y universalmente aplicable.
  - A1.2 El protocolo permite un procedimiento de autenticación y autorización, cuando sea necesario.
- A2. Los metadatos son accesibles, incluso cuando los datos ya no están disponibles.



Principios FAIR (<https://www.force11.org/group/fairgroup/fairprinciples>)

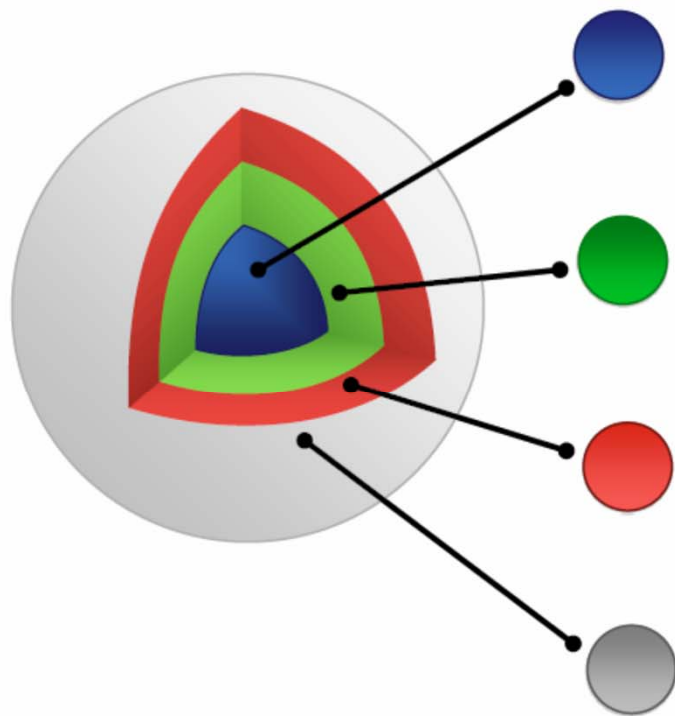
**Para ser interoperable (Interoperable):**

- I1. Los (meta)datos utilizan un lenguaje formal, accesible, compartido y ampliamente aplicable para la representación del conocimiento.
- I2. Los (meta)datos usan vocabularios que siguen principios FAIR.
- I3. Los (meta)datos incluyen referencias calificadas a otros (meta)datos.

**Para ser reutilizable (Reusable)**

- R1. Los (meta)datos tienen disponibles atributos precisos y pertinentes.
  - R1.1. Los (meta)datos se publican con una licencia de reutilización clara y accesible.
  - R1.2. Los (meta)datos están asociados con su procedencia.
  - R1.3. Los (meta)datos cumplen con los estándares propios de una comunidad de un área de conocimiento determinada.

# Turning FAIR data into reality. Interim report from the European Commission Expert Group on FAIR data



## DATA

### The core bits

*At its most basic level, data is a bitstream or binary sequence. For data to have meaning and to be FAIR, it needs to be represented in standard formats and be accompanied by Persistent Identifiers (PIDs), metadata and code. These layers of meaning enrich the data and enable reuse.*

## IDENTIFIERS

### Persistent and unique (PIDs)

*Data should be assigned a unique and persistent identifier such as a DOI or URN. This enables stable links to the object and supports citation and reuse to be tracked. Identifiers should also be applied to other related concepts such as the data authors (ORCID), projects (RAIDs), funders and associated research resources (RRIDs).*

## STANDARDS & CODE

### Open, documented formats

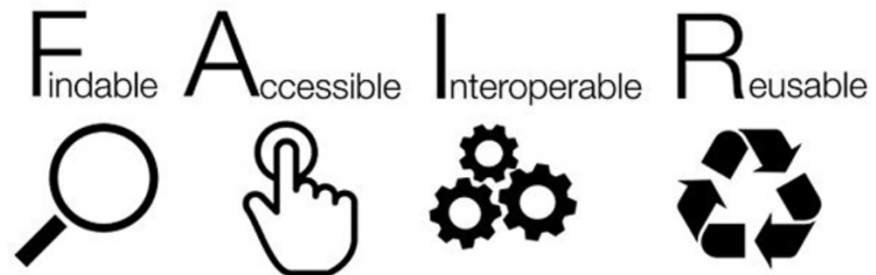
*Data should be represented in common and ideally open file formats. This enables others to reuse the data as the format is in widespread use and software is available to read the files. Open and well-documented formats are easier to preserve. Data also need to be accompanied by the code used to process and analyse the data.*

## METADATA

### Contextual documentation

*In order for data to be assessable and reusable, it should be accompanied by sufficient metadata and documentation. Basic metadata will enable data discovery, but much richer information and provenance is required to understand how, why, when and by whom the data were created. To enable the broadest reuse, data should be accompanied by a 'plurality of relevant attributes' and a clear and accessible data usage license.*

## Model for FAIR data objects

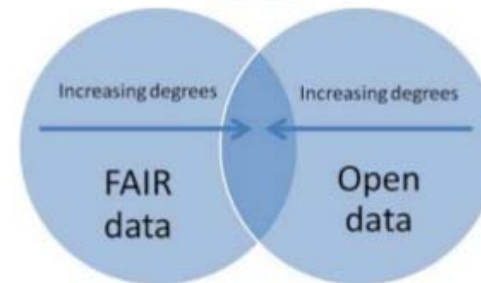




[https://ec.europa.eu/info/sites/default/files/turning\\_fair\\_i nto\\_reality\\_1.pdf](https://ec.europa.eu/info/sites/default/files/turning_fair_i nto_reality_1.pdf)



# Open ≠ FAIR

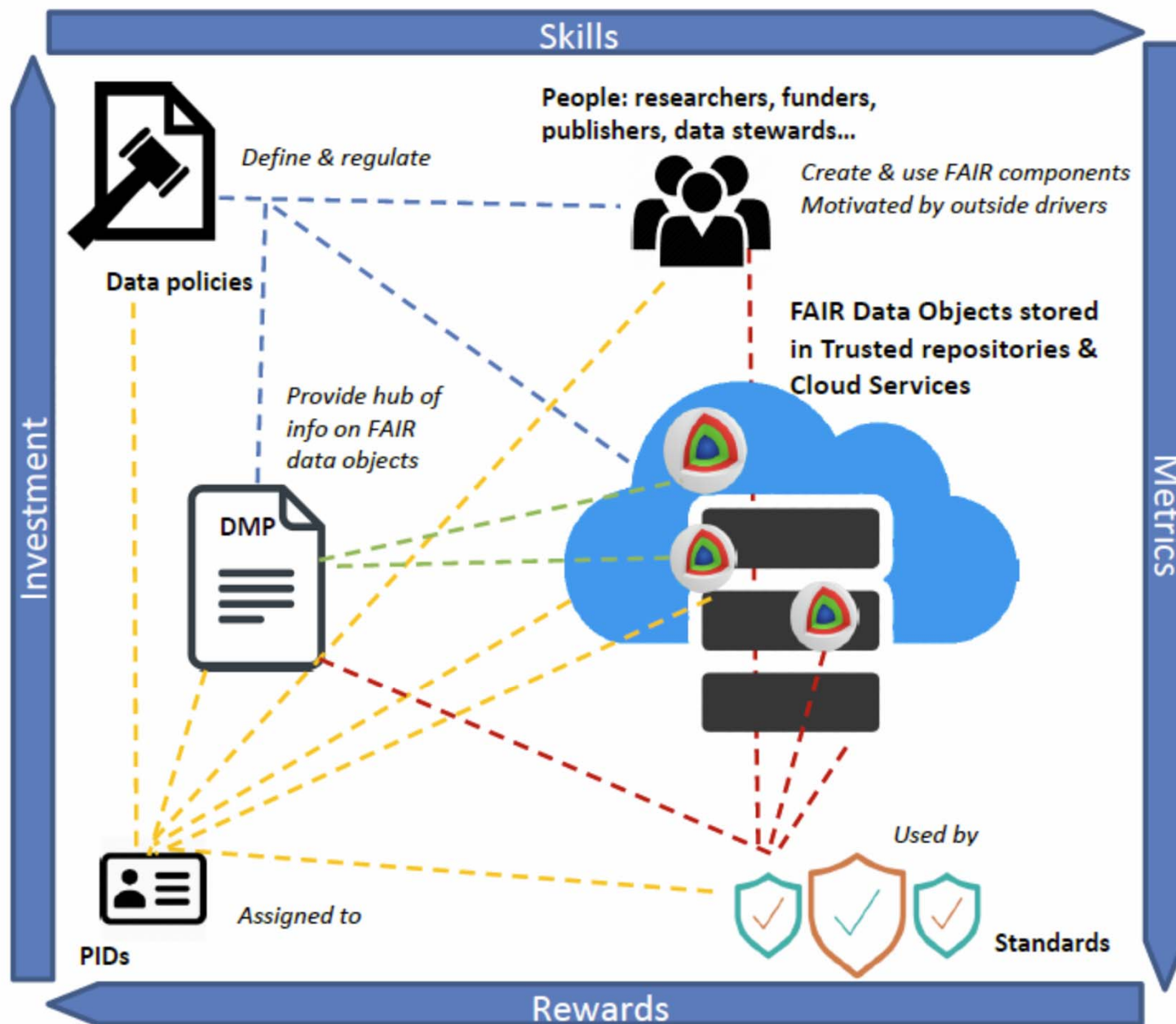


- FAIR and Open should not be conflated. Data can be FAIR or Open, both or neither
- Greatest potential reuse comes when data are both
- Even internal or restricted data will benefit from being FAIR, and there are legitimate reasons for restriction which vary by discipline



CONCEPTS





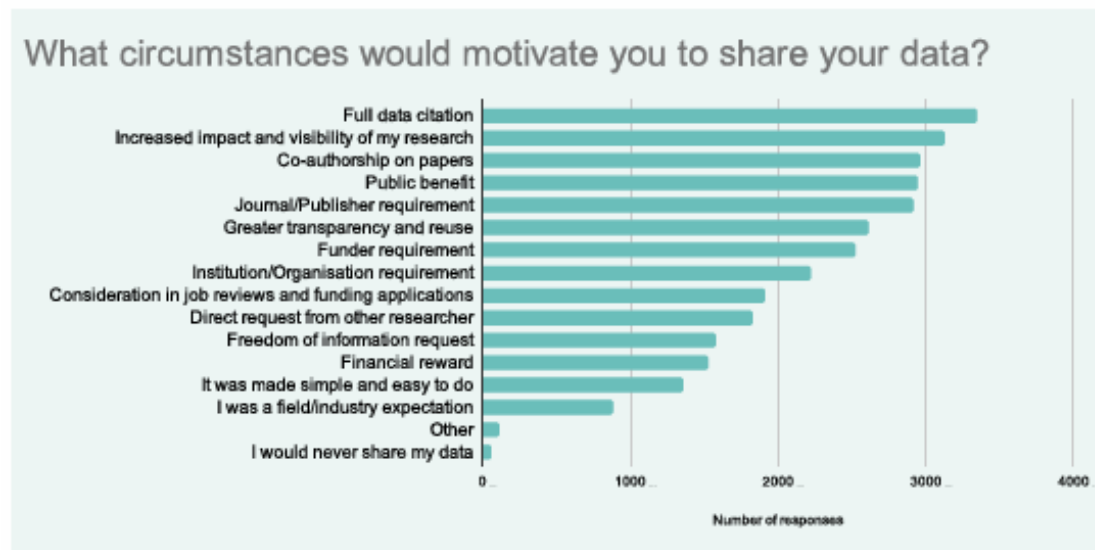
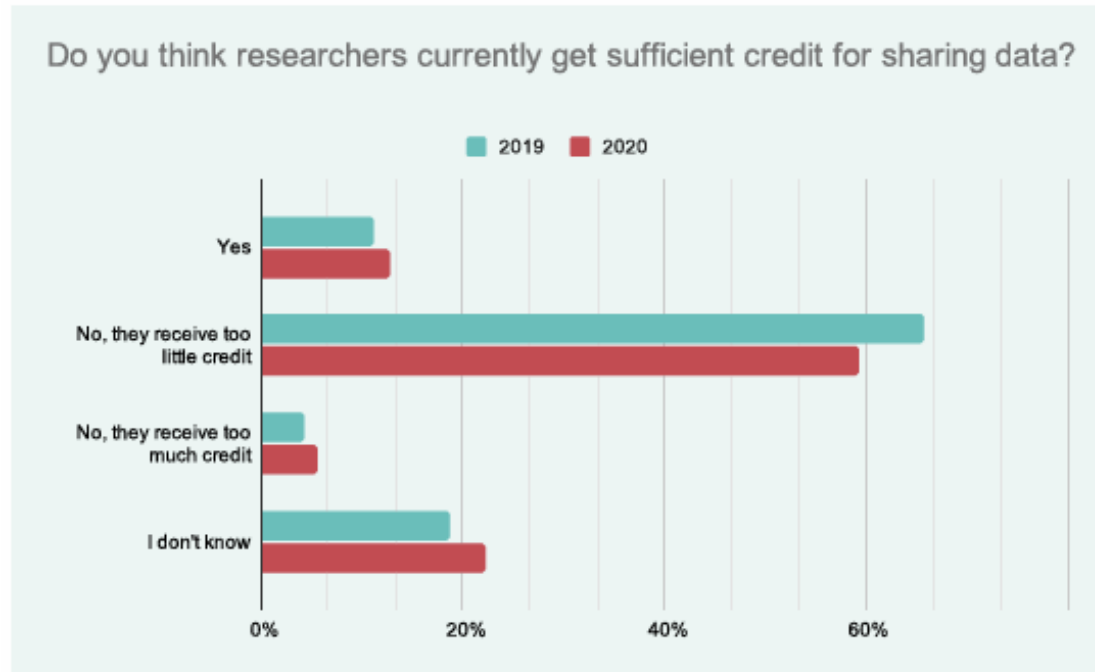
Interacciones entre los componentes del ecosistema de datos FAIR

## Turning FAIR data into reality. Interim report from the European Commission Expert Group on FAIR data

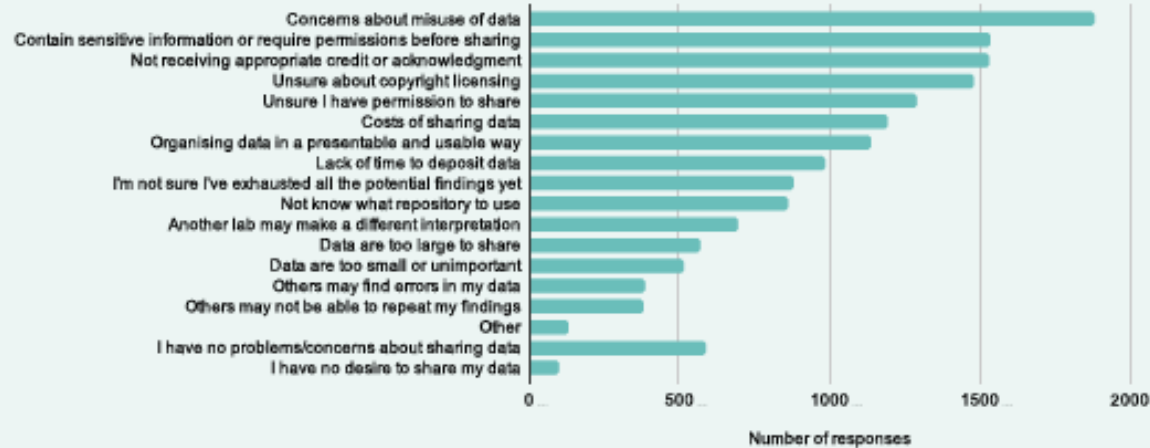
Sectores	Acciones
Research communities	Step 1: Define and apply FAIR appropriate
Data services	Step 2: Develop and support a sustainable FAIR data ecosystem
Data stewards	Step 3: Ensure FAIR data and certified services to support FAIR
Standards bodies	Step 4: Embed a culture of FAIR in research practice
Global coordination fora	Fair data policy
Policymakers	FAIR data culture
Research funders	Technology for FAIR
Institutions	Skills and roles for FAIR
Publishers	FAIR metrics
	Costs and investment in FAIR
	How fair DATA Action Plan supports EOSC

# The State of Open Data 2020 (n= 4500 respuestas)

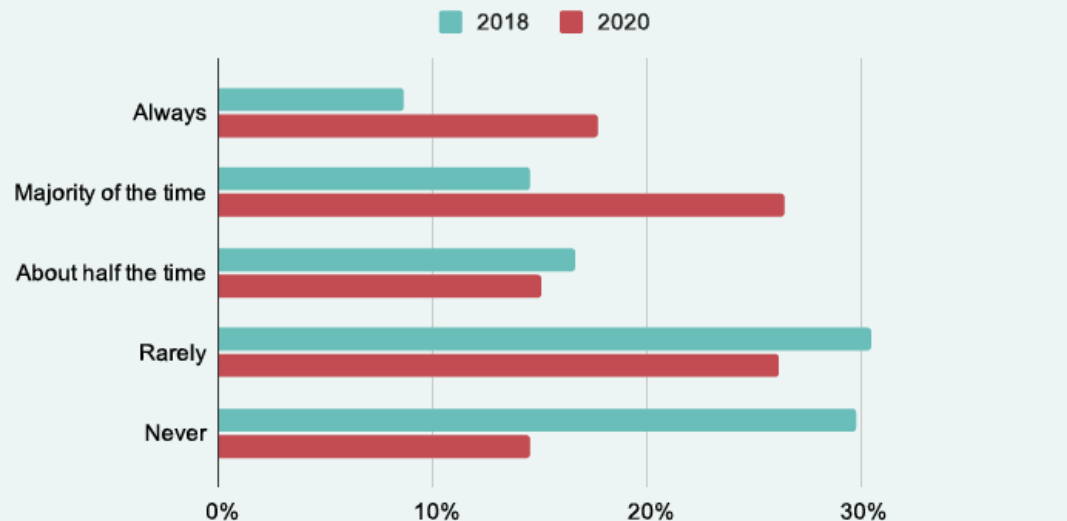
<https://www.digital-science.com/resources/portfolio-reports/the-state-of-open-data-2020/>



## What problems/concerns, if any, do you have with sharing datasets?



## How often do you create a data management plan for the research you carry out? by Year



# Formatos de datos en función de su contenido



Las **convenciones de nomenclatura de archivos y carpetas** son claves para mantener organizados los datos de investigación.

### Recomendaciones para nombrar archivos de datos:

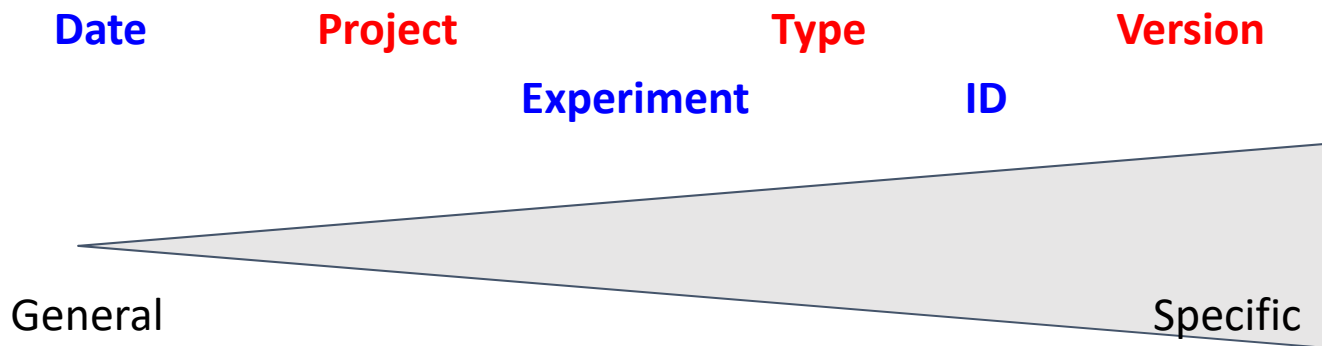
- Definir nombres cortos y relevantes: 25 caracteres es una longitud suficiente para capturar información descriptiva de un archivo de datos.
- No utilizar caracteres especiales en un nombre de archivo como: & \*% \$ £] {! @ ya que se utilizan para tareas específicas en sistemas operativos.
- Usar guiones bajos en lugar de puntos o espacios completos porque, como los caracteres especiales, estos se analizan de manera diferente en diferentes sistemas.
- El nombre del archivo debe incluir información descriptiva que ayude a la identificación independientemente de dónde se almacena.
- Ser consistente en el uso de minúsculas/mayúsculas al nombrar archivos ya que algunos programas pueden considerar diferentes archivos con el mismo nombre.
- Cuando sea posible, usar extensiones de archivo (a menudo predeterminadas) para reflejar con precisión el entorno de software en el que se creó el archivo y el formato físico del archivo. Por ejemplo, use “por” para archivos portátiles de SPSS, .xls o .xlsx para archivos de Excel, “.txt” para archivos de texto.
- Nombrar archivos por cronología, usando el formato Año-Mes-Día: AAAA-MM-DD o AAAA-MM. Esto mantendrá el orden cronológico de los archivos.



## File naming convention (FNC)

- Include data in yyyy-mm-dd format
- Use meaningful abbreviations
- Have group identifiers
- Document your decisions
- Be consistent

20130825\_DOEProject\_Ex1Test1\_Data\_Gonzalez\_v3-03.xlsx



## Recomendaciones respecto a los formatos de los ficheros

- Publicar los datos en formatos abiertos, no propietarios y legibles por máquina, si es posible.
- Guarde los archivos en formatos abiertos y propietarios (por ejemplo, data.xlsx y data.csv) para mejorar la usabilidad, si procede.
- Comprima los datos para facilitar el intercambio y la descarga de archivos grandes. Compruebe los formatos de archivos comprimidos (zip) en la investigación.
- Mantenga el mismo nombre de archivo para el mismo archivo en diferentes formatos (por ejemplo, data.doc y data.txt).
- Incluir la documentación de los datos, las transformaciones y las directrices del software para acceder al formato propietario.
- Considere la posibilidad de compartir el código de software alternativo a los ejecutables propietarios.
- Compruebe si hay errores u omisiones si convierte el archivo a un formato diferente.

Type of data	Recommended formats	Acceptable formats
<b>Image data</b>	TIFF 6.0 uncompressed (.tif)	JPEG (.jpeg, .jpg, .jp2) if original created in this format GIF (.gif) TIFF other versions (.tif, .tiff) RAW image format (.raw) Photoshop files (.psd) BMP (.bmp) PNG (.png) Adobe Portable Document Format (PDF/A, PDF) (.pdf)
<b>Audio data</b>	Free Lossless Audio Codec (FLAC) (.flac)	MPEG-1 Audio Layer 3 (.mp3) if original created in this format Audio Interchange File Format (.aif) Waveform Audio Format (.wav)
<b>Video data</b>	MPEG-4 (.mp4) OGG video (.ogv, .ogg) motion JPEG 2000 (.mj2)	AVCHD video (.avchd)
<b>Documentation and scripts</b>	Rich Text Format (.rtf) PDF/UA, PDF/A or PDF (.pdf) XHTML or HTML (.xhtml, .htm) OpenDocument Text (.odt)	plain text (.txt) widely-used formats: MS Word (.doc/.docx), MS Excel (.xls/.xlsx) XML marked-up text (.xml) according to an appropriate DTD or schema, e.g. XHTML 1.0

Type of data	Recommended formats	Acceptable formats
<b>Tabular data with extensive metadata</b> variable labels, code labels, and defined missing values	SPSS portable format (.por) delimited text and command ('setup') file (SPSS, Stata, SAS, etc.) structured text or mark-up file of metadata information, e.g. DDI XML file	proprietary formats of statistical packages: SPSS (.sav), Stata (.dta), MS Access (.mdb/.accdb)
<b>Tabular data with minimal metadata</b> column headings, variable names	comma-separated values (.csv) tab-delimited file (.tab) delimited text with SQL data definition statements	delimited text (.txt) with characters not present in data used as delimiters widely-used formats: MS Excel (.xls/.xlsx), MS Access (.mdb/.accdb), dBase (.dbf), OpenDocument Spreadsheet (.ods)
<b>Geospatial data</b> vector and raster data	ESRI Shapefile (.shp, .shx, .dbf, .prj, .sbx, .sbn optional) geo-referenced TIFF (.tif, .tfw) CAD data (.dwg) tabular GIS attribute data Geography Markup Language (.gml)	ESRI Geodatabase format (.mdb) MapInfo Interchange Format (.mif) for vector data Keyhole Mark-up Language (.kml) Adobe Illustrator (.ai), CAD data (.dxf or .svg) binary formats of GIS and CAD packages
<b>Textual data</b>	Rich Text Format (.rtf) plain text, ASCII (.txt) eXtensible Mark-up Language (.xml) text according to an appropriate Document Type Definition (DTD) or schema	Hypertext Mark-up Language (.html) widely-used formats: MS Word (.doc/.docx) some software-specific formats: NUD*IST, NVivo and ATLAS.ti



## Recommended formats

SHARE

This table contains guidance on file formats recommended and accepted by the UK Data Service for data sharing, reuse and preservation.

You may need to convert your data files to a preservation file format.

We welcome [queries](#) from researchers about appropriate file formats for working and preservation, particularly early in the research process.

If you are unsure of the suitability of your file formats for the data you want to deposit with the UK Data Service, please [get in touch](#).

Type of data	Recommended formats	Acceptable formats
Tabular data with extensive metadata variable labels, code labels and	SPSS portable format (.por) delimited text and command ('setup') file (SPSS, Stata, SAS, etc.)	proprietary formats of statistical packages: SPSS (.sav), Stata (.dta), MS Access (.mdb/.accdb)

Data lifecycle

Plan to share

Legal and ethical

Rights

Document your data

● Format your data

File formats

– Recommended formats

Organising

Quality

Versioning

Transcription

# **Cómo licenciar y citar datasets**



Data licensing allows knowing how to reuse your data



**Open Data Licensing Animation - OERIPR Support**

[https://www.youtube.com/watch?v=Tvwp5LK\\_Wko](https://www.youtube.com/watch?v=Tvwp5LK_Wko)

# 1 Data



## CC0

**Creative Commons Zero** is ideal for openly sharing data – it has no restrictions on reuse whatsoever. While CC0 contains no requirement for attribution, citing CC0 datasets is widely accepted and expected in research.

## Other CC licenses

If a CC0 license is not suitable for your data, consider the following CC licenses - all of which require attribution and further restrictions:

**CC-BY** Prevents others from applying legal restrictions beyond the terms of the license to the licensed dataset.

**CC BY-SA** Requires outputs derived from licensed dataset to also be licensed as CC BY-SA.

**CC BY-NC** Prevents the licensed data from being used for commercial purpose.

**CC BY-ND** Prevents the licensed data from being modified.

**CC BY-NC-ND** Prevents the licensed data from being used for commercial purposes or modified.

**CC BY-NC-SA** Prevents the licensed data from being used for commercial purposes, and requires outputs derived from licensed dataset to also be licensed as CC BY-SA

## Tres “Capas” de las licencias



### Caution!

NC, ND and SA licenses have implications for reuse and interoperability. We suggest using a license that keeps your data as open as possible and as closed as necessary.

Licencias recomendadas por el OKF conformes a su definición de abierto (atribución y compartir igual) . Open Data Commons y Creative Commons

License	Domain	By	SA	Comments
<a href="#">Creative Commons CCZero (CC0)</a>	Content, Data	N	N	Dedicate to the Public Domain (all rights waived)
<a href="#">Open Data Commons Public Domain Dedication and Licence (PDDL)</a>	Data	N	N	Dedicate to the Public Domain (all rights waived)
<a href="#">Creative Commons Attribution 4.0 (CC-BY-4.0)</a>	Content, Data	Y	N	
<a href="#">Open Data Commons Attribution License (ODC-BY)</a>	Data	Y	N	Attribution for data(bases)
<a href="#">Creative Commons Attribution Share-Alike 4.0 (CC-BY-SA-4.0)</a>	Content, Data	Y	Y	
<a href="#">Open Data Commons Open Database License (ODbL)</a>	Data	Y	Y	Attribution-ShareAlike for data(bases)

<http://opendefinition.org/licenses/>

# Cómo asignar estas licencias

## Public Domain Dedication and License (PDDL)

This {DATA(BASE)-NAME} is made available under the Public Domain Dedication and License version v1.0 whose full text can be found at <http://opendatacommons.org/licenses/pddl/>

NB: you may also wish to apply some complementary Community Norms Open Database License

This {DATA(BASE)-NAME} is made available under Open Database License whose full text can be found at <http://opendatacommons.org/licenses/odbl/>. Any rights in individual contents of the database are licensed under the Database Contents License whose text can be found <http://opendatacommons.org/licenses/dbcl/>

<https://opendatacommons.org/licenses/>

The screenshot shows the Creative Commons license selection process. At the top, there is a navigation bar with the Creative Commons logo and links for 'Share your work', 'Use & remix', 'What we do', and 'Blog'. Below this is a green 'Donate Now' button. The main content area is divided into several sections:

- Características de la licencia:** This section asks for preferences regarding adaptations and commercial use. The first question is '¿Quiere permitir que se compartan las adaptaciones de su obra?' with radio buttons for 'Sí', 'No', and 'Sí, mientras se comparta de la misma manera'. The second question is '¿Quiere permitir usos comerciales de su obra?' with radio buttons for 'Sí' and 'No'.
- Licencia seleccionada:** This section displays the selected license, 'Reconocimiento 4.0 Internacional', with the Creative Commons icons (CC and BY).
- ¡Ayude a que se reconozca su autoría!** This section provides a note that this part is optional but helps with metadata.
- ¿Tiene una página web?** This section asks if the user has a website and provides a code snippet for embedding the license information on a website.

<https://creativecommons.org/choose/>

<https://ufal.github.io/public-license-selector/>

### Choose a License

Answer the questions or use the search to find the license you want


Is your data within the scope of copyright and related rights?

Search for a license...

---

**Public Domain Mark (PD)**



The work identified as being free of known restrictions under copyright law, including all related and neighboring rights.



---

**Public Domain Dedication (CC Zero)**



CC Zero enables scientists, educators, artists and other creators and owners of copyright- or database-protected content to waive those interests in their works and thereby place them as completely as possible in the public domain, so that others may freely build upon, enhance and reuse the works for any purposes without restriction under copyright or database law.

---

**Creative Commons Attribution (CC-BY)**

Modified description ...

---

**Creative Commons Attribution-ShareAlike (CC-BY-SA)**

This creative commons license is very similar to the regular Attribution license, but requires you to release all

# Cómo citar

<https://search.datacite.org/works/10.5281/zenodo.4478250>



## Por qué y cómo citar los datos (para autores)

### ¿Por qué?

1. Facilita la reproducibilidad y la validación de los resultados, permite la reutilización de los datos.
2. Proporciona crédito a los generadores de datos.
3. Las publicaciones vinculadas a datos disponibles públicamente se han asociado a un aumento de las citas.
4. Mejora la conectividad y el seguimiento de la procedencia de los datos descritos en las publicaciones.
5. Las agencias de financiación (ej Comisión Europea), los editores (Plos) y las instituciones (p.e. CSIC) exigen cada vez más que se compartan los datos.

### ¿Cómo?

1. En el caso de los datos primarios: determine un repositorio apropiado a largo plazo para archivar los datos. Su editor debe proporcionar acceso a una lista de repositorios de archivo aceptables.
2. Deposite sus datos y obtenga del repositorio un número de acceso o un DOI del conjunto de datos.
3. Para los datos secundarios: cite lo que utiliza. Cuando utilice los datos de otros, cite tanto la literatura revisada por pares como los conjuntos de datos utilizados
4. Incluya citas de datos "formales" siempre que sea posible: Cuando los conjuntos de datos tienen identificadores formales y estables o números de acceso, deben incluirse en la lista de referencias principal.
5. Sea lo más completo posible, pero no se invente los metadatos: Si un registro de datos no tiene un autor/creador o un título claros, no se invente uno.
6. Consulte la Guía para autores de su editor para dar formato a la referencia de su conjunto de datos.

Cousijn, H., Kenall, A., Ganley, E. *et al.* A data citation roadmap for scientific publishers. *Sci Data* **5**, 180259 (2018). <https://doi.org/10.1038/sdata.2018.259>

**1. Importancia.** Los datos deben considerarse productos de investigación legítimos y citables

**2. Crédito y atribución.** Las citas de datos deben facilitar la concesión de crédito académico y atribución normativa y legal a todos los contribuyentes a los datos

**3. Evidencia.** siempre y cuando una afirmación se base en datos, se deben citar los datos correspondientes

**4. Identificación única.** Una cita de datos debe incluir un identificador único y persistente y legible por máquinas

**5. Acceso.** Las citas de datos deben facilitar el acceso a los propios datos y a los metadatos, tanto a las personas como a las máquinas

**6. Persistencia.** Los identificadores únicos y los metadatos que describen los datos y su disposición deben persistir, incluso más allá de la vida útil de los datos que describen

**7. Especificidad y verificabilidad.** Las citas de datos deben facilitar la identificación, el acceso y la verificación de los datos específicos que respaldan una afirmación

**8. Interoperabilidad y flexibilidad.** Los métodos de citación de datos deben ser lo suficientemente flexibles para adaptarse a las prácticas de comunidades científicas, sin comprometer la interoperabilidad de las prácticas de citación de datos entre estas comunidades

## Generic Data Citation (as it appears in printed reference list)

**Principle 2: Credit and Attribution** (e.g. authors, repositories or other distributors and contributors)

**Principle 4: Unique Identifier** (e.g. DOI, Handle.). **Principle 5, 6 Access, Persistence:** A persistent identifier that provides access and metadata

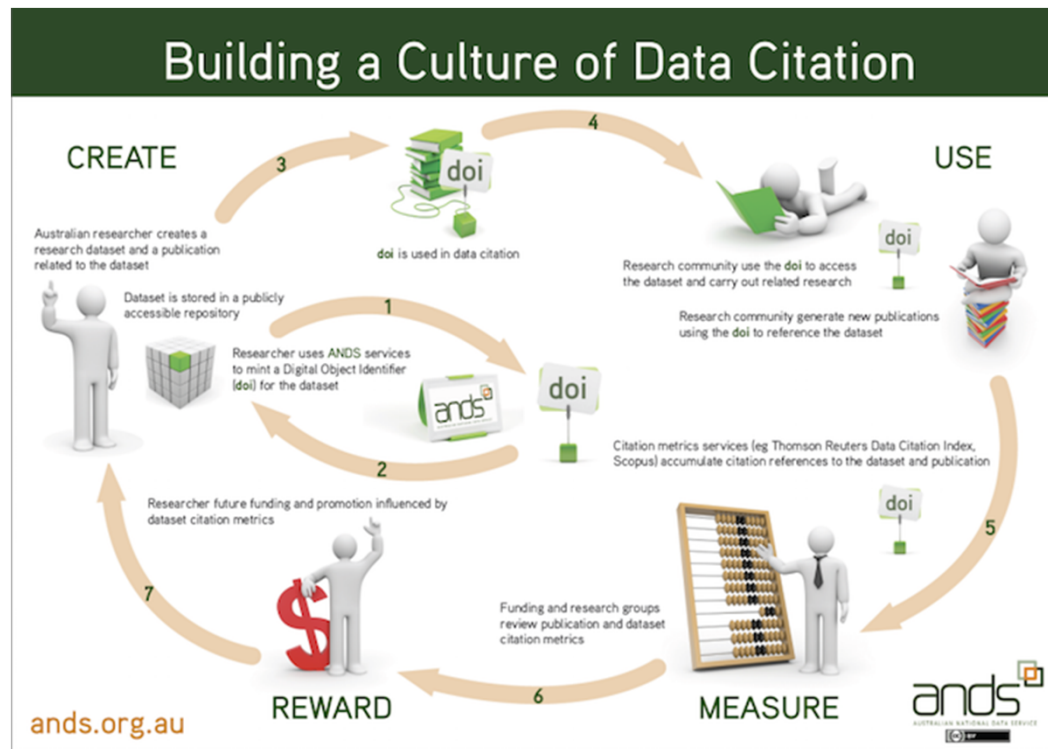
Author(s), Year, Dataset Title, Data Repository or Archive, Version, Global Persistent Identifier

**Principle 7: Specificity and verification**  
(e.g. the specific version used).

Versioning or timeslice information should be supplied with any updated or dynamic dataset.

**Note:**

- Neither the format nor specific required elements are intended to be defined with this example. Formats, optional elements, and required elements will vary across publishers and communities. **[Principle 8: Interoperability and flexibility]**.
- As illustrated in the previous examples, intra-work citations may be accompanied with information including the specific portion used. **[Principles 7,8]**.
- As illustrated in the next example, printed citations should be accompanied by metadata that support credit, attribution, specificity, and verification. **[Principles 2, 5 and 7]**.



También si no tienes DOI

A standard citation includes the following elements:

**Autores (año): Título. Lugar de publicación. DOI (if used)**

**Ejemplo**

Hanigan, Ivan (2012): Monthly drought data for Australia 1890-2008 using the Hutchinson Drought Index. The Australian National University Australian Data Archive.

<http://doi.org/10.4225/13/50BBFD7E6727A>

## Ejemplo de formato de cita al usar el DOI Citation formatter

<http://citation.crosscite.org/>

### DOI Citation Formatter

Paste your DOI:

10.5061/dryad.7dj7t

For example 10.1145/2783446.2783605

Select Formatting Style:

apa

Begin typing (e.g. Chicago or IEEE.) or use the drop down menu.

Select Language and Country:

en-US

Begin typing (e.g. en-GB for English, Great Britain) or use the drop down menu.

Format

Wang, M., Gu, D., Du, M., Xu, Z., Zhang, S., Zhu, L., ... Chen, J. (2016). Data from: Common genetic variation in ETV6 is associated with colorectal cancer susceptibility [Data set]. Dryad Digital Repository. <https://doi.org/10.5061/dryad.7dj7t>

Copy to clipboard

Do you want to integrate this service? Check the [Documentation](#)

#### DOI Registration Agencies



<https://data.research.cornell.edu/content/data-citation>



**OpenRefine**

A free, open source,  
powerful tool for working  
with messy data



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## Welcome!

OpenRefine (previously Google Refine) is a powerful tool for working with messy data: cleaning it; transforming it from one format into another; and extending it with web services and external data.

OpenRefine always keeps your data private on your own computer until YOU want to share or collaborate. Your private data never leaves your computer unless you want it to. (It works by running a small server on your computer and you use your web browser to interact with it)

OpenRefine is available in more than 15 languages.

OpenRefine is part of [Code for Science & Society](#).

## Introduction to OpenRefine

### 1. Explore Data



# Metadatos

# Metadatos por disciplina

<http://www.dcc.ac.uk/resources/metadata-standards>

## In this section

- Briefing Papers
- How-to Guides & Checklists
- Developing RDM Services
- Curation Lifecycle Model
- Curation Reference Manual
- Policy and legal
- Data Management Plans
- Tools
- Case studies
- Repository audit and assessment
- Standards
  - Disciplinary Metadata**
  - DIFFUSE
- Publications and presentations
- Roles
- Curation journals
- Informatics research
- External resources
- Online Store**

## Disciplinary Metadata

While data curators, and increasingly researchers, know that good metadata is key for research data access and re-use, figuring out precisely what metadata to capture and how to capture it is a complex task. Fortunately, many academic disciplines have supported initiatives to formalise the metadata specifications the community deems to be required for data re-use. This page provides links to information about these disciplinary metadata standards, including profiles, tools to implement the standards, and use cases of data repositories currently implementing them.

For those disciplines that have not yet settled on a metadata standard, and for those repositories that work with data across disciplines, the General Research Data section links to information about broader metadata standards that have been adapted to suit the needs of research data.

Please note that a community-maintained version of this directory<sup>62</sup> has been set up under the auspices of the Research Data Alliance.

## Search by Discipline



Biology



Earth Science



General Research Data



Physical Science



Social Science & Humanities

Vocabularios controlados por materias, p.e., <https://vocabs.andis.org.au/>

Research Vocabularies Australia

About Widget Explorer Get Involved My Vocab Login

**Research Vocabularies Australia** helps you find, access, and reuse vocabularies for research.

Search for a vocabulary or a concept  **Search**

[Browse all vocabularies](#)

## Get Involved

- Publish a vocabulary**

Upload, describe and publish your vocabularies to Research Vocabularies Australia
- Use a vocabulary**

Understand how you can utilise Research Vocabulary Australia vocabularies
- Explore widgetable vocabularies**

Discover vocabularies that can be readily used in your system using our vocabulary widget
- Provide feedback**

Help Research Vocabularies Australia to grow into a comprehensive vocabulary portal

We guide consumers to discover, select and use these resources with confidence, and producers to make their resource more discoverable, more widely adopted and cited.



### Researchers in academia, industry and government

Identify and cite the standards, databases or repositories that exist for your discipline when creating a data management plan, releasing data or submitting a manuscript to a journal...

[\[read more\]](#)

- Researchers
- Developers & Curators
- Journal Publishers
- Librarians & Trainers
- Societies & Alliances
- Fundors

**Find**

**Recommendations**

Standards and/or databases recommended by journals and policies.

FAIRsharing.org  
standards, databases, policies

Search all of FAIRsharing Standards Databases Policies Collections Add/Claim Content

Showing records 1 - 50 of 140.

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>

Registry	Name	Abbreviation	Type	Subject	Domain	Taxonomy	Related Database	Related Standard	Related Policy	In Collect
	National Child Development Study 1958BC data deposition policy	NCDS Policy	Project	<span style="background-color: #f4a460; padding: 2px;">Biomedical Science</span> <span style="background-color: #f4a460; padding: 2px;">Psychological Studies</span>	None	<span style="background-color: #4caf50; color: white; padding: 2px;">Home supplies</span>	None	None	Material Transfer Agreement for 1958BC samples Policy for use and oversight of samples and data arising from the Biomedical Resource of the 1958 Birth Cohort (National Child Development Study) Conditions of use of 1958BC data including policy on incidental findings (National Child Development Study)	<span style="background-color: #9e9e9e; padding: 2px;">National</span>
	African Academy of Sciences Open Research Data Guidelines for Authors	AAS Policy	Journal	<span style="background-color: #f4a460; padding: 2px;">Biomedical Science</span> <span style="background-color: #f4a460; padding: 2px;">Life Science</span>		<span style="background-color: #4caf50; color: white; padding: 2px;">Journal Article</span> <span style="background-color: #4caf50; color: white; padding: 2px;">All</span>	GenBank BioSD ChEMBL COD Expression Atlas Plus 42 more...	ARRIVE PRISMA CONSORT DataCite Metadata Schema CARE Plus 1 more...	None	None
	Advanced Genetics	None	Journal	<span style="background-color: #f4a460; padding: 2px;">Biology</span> <span style="background-color: #f4a460; padding: 2px;">Biomedical Science</span> <span style="background-color: #f4a460; padding: 2px;">Comparative Genomics</span> <span style="background-color: #f4a460; padding: 2px;">Epigenetics</span> <span style="background-color: #f4a460; padding: 2px;">Functional Genomics</span> <span style="background-color: #f4a460; padding: 2px;">Plus 3 more...</span>		<span style="background-color: #4caf50; color: white; padding: 2px;">Annotation</span> <span style="background-color: #4caf50; color: white; padding: 2px;">Knowledge Representation</span> <span style="background-color: #4caf50; color: white; padding: 2px;">Protein</span> <span style="background-color: #4caf50; color: white; padding: 2px;">All</span>	GenBank ChEMBL FlyBase TAIR WormBase Plus 36 more...	ISA-Tab OBI EFO CellML ENVO Plus 19 more...	None	None
	Agency for Healthcare Research and Quality Public Access to Federally Funded Research	AHRQ Policy	Funder	<span style="background-color: #f4a460; padding: 2px;">Biomedical Science</span> <span style="background-color: #f4a460; padding: 2px;">Life Science</span>	None	<span style="background-color: #4caf50; color: white; padding: 2px;">All</span>	ClinicalTrials.gov	None	None	None
	American Association for the Advancement of Science - Science - Editorial Policies, Data Materials Availability	AAAS Science Policy	Journal	<span style="background-color: #f4a460; padding: 2px;">Biomedical Science</span> <span style="background-color: #f4a460; padding: 2px;">Environmental Science</span> <span style="background-color: #f4a460; padding: 2px;">Life Science</span>		<span style="background-color: #4caf50; color: white; padding: 2px;">Bibliography</span> <span style="background-color: #4caf50; color: white; padding: 2px;">Journal Article</span> <span style="background-color: #4caf50; color: white; padding: 2px;">Publication</span> <span style="background-color: #4caf50; color: white; padding: 2px;">All</span>	GenBank CSD ArrayExpress ENA PDBe Plus 7 more...	CONSORT MIAME	None	None

View as Table View as Grid

Sort by  
Name

**Recommended Records**

Recommended

**Associated Publication?**

No Publication Has Publication

**Claimed?**

No Maintainer Has Maintainer

**Record Status**

Uncertain Deprecated In development Ready

**Record Type**

Journal 92

Funder 23

Project 13

Society 12

**Domains**

Bibliography 52

Nucleic Acid Sequence 3

## RESEARCH DATA MANAGEMENT SERVICE GROUP

Comprehensive Data Management Planning & Services

### Guide to writing "readme" style metadata

A readme file provides information about a data file and is intended to help ensure that the data can be correctly interpreted, by yourself at a later date or by others when sharing or publishing data. **Standards-based metadata** is generally preferable, but where no appropriate standard exists, for internal use, writing "readme" style metadata is an appropriate strategy.

 Want a template? **Download one** and adapt it for your own data!

- Best practices
- Recommended content
  - General information
  - Data and file overview
  - Sharing and access information
  - Methodological information
  - Data-specific information
- References
- Related information

```
[This DATSETNAMEREADME.TXT file was generated on YYYY-MM-DD by NAME  
<help text is included in angle brackets, and can be deleted before saving>
```

#### GENERAL INFORMATION

1. Title of Dataset:

2. Author Information

A. Principal Investigator Contact Information

Name:  
Institution:  
Address:  
Email:

B. Associate or Co-investigator Contact Information

Name:  
Institution:  
Address:  
Email:

C. Alternate Contact Information

Name:  
Institution:  
Address:  
Email:

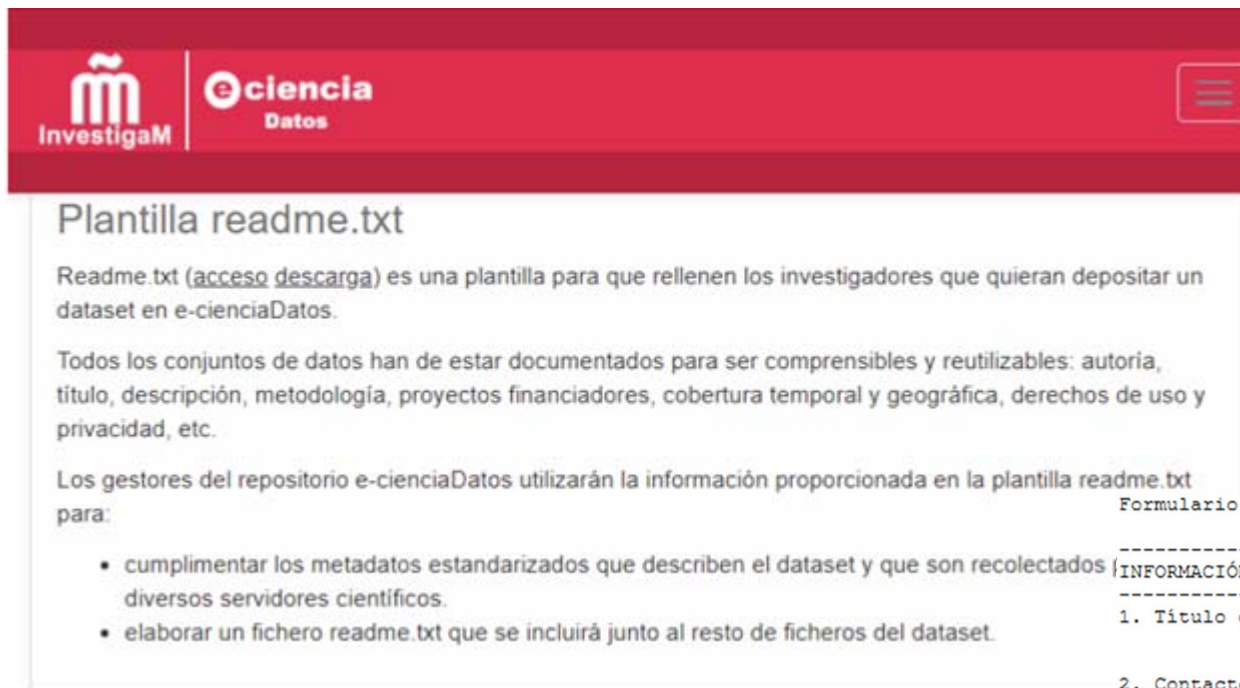
3. Date of data collection (single date, range, approximate date) <suggested format YYYY-MM-DD>:

4. Geographic location of data collection <latitude, longitude, or city/region, State, Country, as appropriate>:

5. Information about funding sources that supported the collection of the data:

<https://data.research.cornell.edu/content/readme#introductory>

<https://edatos.consorciomadrono.es/readme.xhtml>



## Plantilla readme.txt

Readme.txt ([acceso](#) [descarga](#)) es una plantilla para que rellenen los investigadores que quieran depositar un dataset en e-cienciaDatos.

Todos los conjuntos de datos han de estar documentados para ser comprensibles y reutilizables: autoría, título, descripción, metodología, proyectos financiadores, cobertura temporal y geográfica, derechos de uso y privacidad, etc.

Los gestores del repositorio e-cienciaDatos utilizarán la información proporcionada en la plantilla readme.txt para:

- cumplimentar los metadatos estandarizados que describen el dataset y que son recolectados en diversos servidores científicos.
- elaborar un fichero readme.txt que se incluirá junto al resto de ficheros del dataset.

Formulario "readme" en e-cienciaDatos

```
-----  
INFORMACIÓN GENERAL  
-----  
1. Título del dataset  
  
2. Contacto  
  
Investigador/a de contacto  
Nombre:  
Filiación:  
Correo electrónico:  
ORCID:  
  
3. Descripción del proyecto  
  
4. Descripción del dataset  
  
5. Notas  
  
6. Fecha de depósito de los ficheros  
  
7. Fecha de creación de los ficheros  
  
8. Idioma
```

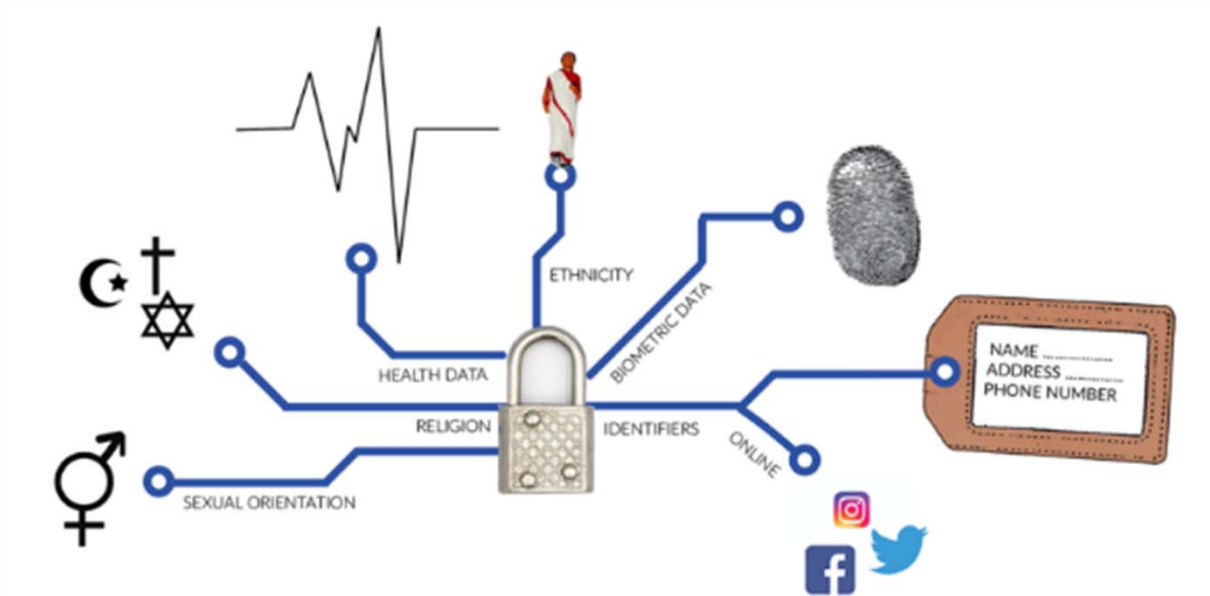
<https://edatos.consorciomadrono.es/resources/txt/readme-es.txt>

# Tratamiento de datos personales y confidenciales





El término **datos personales** se refiere a cualquier información que pueda usarse para identificar individuos vivos (y, a veces, incluso fallecidos). Por ejemplo, su nombre o fecha de nacimiento. Algunos datos personales, como el origen, la opinión política, las creencias religiosas, la salud, la afiliación sindical o la orientación sexual de una persona, se clasifican como **datos personales confidenciales**. Si se manejan datos personales o confidenciales como parte de su investigación, debemos asegurarnos de que están protegidos.



<https://www.cessda.eu/Training/Training-Resources/Library/Data-Management-Expert-Guide/5.-Protect/Ethics-and-data-protection>

# Cuestiones previas a la recopilación de datos personales

## **¿Qué datos personales recopilará?**

Identifique qué datos personales se recopilarán y utilizarán para su investigación. Por ejemplo, ¿Reunirá los nombres y direcciones de los participantes de la investigación?

## **¿Cómo se cubrirán los costes de anonimización?**

Discuta si realmente necesita recopilar datos personales para llevar a cabo su investigación. Tenga en cuenta que cualquier información personal innecesaria recopilada y agregada a su conjunto de datos probablemente deberá eliminarse o anonimizarse más tarde si planea compartirla. Esto puede ser costoso. En algunos casos, la limpieza de datos puede costar más que la recolección de datos en sí.

## **¿Realmente necesita recopilar datos personales?**

Tómese siempre el tiempo necesario para volver a considerar si hay formas en que puede recopilar datos de forma anónima. Esto podría ahorrarle muchos dolores de cabeza más tarde. Así que solo se compromete a recopilar datos personales si es esencial para su investigación.

Al recopilar y / o manejar datos personales, los investigadores deben seguir una serie de principios que incluyen:

**Transparencia:** procesamiento de datos personales "de manera legal, justa y transparente"

**Minimización de datos:** el uso de los datos se limitará al propósito de la investigación respectiva.

**Precisión:** los datos inexactos deben ser "borrados o rectificadas sin demora".  
Integridad y confidencialidad: los datos deben estar protegidos por medidas de seguridad adecuadas (técnicas y organizativas).

Con el nuevo Reglamento General de Protección de Datos (GDPR), la Unión Europea proporciona un marco legal para la protección de datos dentro de la UE, así como para la exportación de estos datos fuera de sus fronteras.

**En cuanto al tratamiento de datos personales, el GDPR incluye una exención para el ulterior uso con fines de investigación:**

Si se trata de "aspectos de interés público, investigación científica o histórica o fines estadísticos" (Art. 5.1 2016/679 / UE):

#### **Artículo 5 Principios relativos al tratamiento**

*1. Los datos personales serán: a) tratados de manera lícita, leal y transparente en relación con el interesado («licitud, lealtad y transparencia»); b) recogidos con fines determinados, explícitos y legítimos, y no serán tratados ulteriormente de manera incompatible con dichos fines; de acuerdo con el artículo 89, apartado 1, el tratamiento ulterior de los datos personales con fines de archivo en interés público, fines de investigación científica e e histórica o fines estadísticos no se considerará incompatible con los fines iniciales («limitación de la finalidad»);*

En resumen, la recolección de datos de investigación que incluyan datos sensibles *con tratamientos de poca complejidad*

## **Requieren:**

- **Consentimiento inequívoco (no vale genérico)**
- **Base legal**
- **Finalidad (¿para qué?)**
- **Análisis de riesgos**
- **Transparencia en la información a los interesados**
- **Medidas de seguridad y preservación (en caso necesario)**

Reglamento General de Protección de Datos (RGPD) de 28 de mayo de 2018  
[Ley Orgánica 3/2018](#), de 5 de diciembre, de Protección de Datos Personales y garantía de los derechos digitales.

**LOS DERECHOS QUE TIENES PARA PROTEGER TUS DATOS PERSONALES**

EL 25 DE MAYO DE 2018 SE APLICA EL REGLAMENTO EUROPEO DE PROTECCIÓN DE DATOS Y ES IMPORTANTE QUE CONOZCAS CUÁLES SON TUS DERECHOS

**1 DERECHO A CONOCER**

- PARA QUÉ UTILIZAN TUS DATOS
  - Quién los tiene
  - Para qué los tienen
  - A quién los pueden ceder
  - Quiénes son sus destinatarios
- EL PLAZO DE CONSERVACIÓN DE TUS DATOS o Hasta cuándo van a ser utilizados
- QUE PUEDES PRESENTAR UNA RECLAMACIÓN ANTE LA AGENCIA ESPAÑOLA DE PROTECCIÓN DE DATOS
- LA EXISTENCIA DE DECISIONES AUTOMATIZADAS, LA ELABORACIÓN DE PERFILES Y SUS CONSECUENCIAS

**2 DERECHO A SOLICITAR AL RESPONSABLE**

- LA SUSPENSIÓN DEL TRATAMIENTO DE TUS DATOS
  - Si impugnamos la exactitud de los datos, mientras se verifica dicha exactitud por parte del responsable
  - Si hemos ejercitado nuestro derecho de oposición al tratamiento de datos, mientras se verifica si los motivos legítimos del responsable prevalecen sobre tus derechos
- LA CONSERVACIÓN DE TUS DATOS
  - Si el tratamiento es ilícito y nos oponemos a la supresión de los datos solicitando la limitación de su uso
  - Si los datos se necesitan para la formulación, ejercicio o defensa de reclamaciones
- LA PORTABILIDAD DE TUS DATOS A OTROS PROVEEDORES DE SERVICIOS
  - En un formato estructurado, de uso común y lectura mecánica, siempre que sea técnicamente posible para su portabilidad y cuando los hayan utilizado/tratado con tu consentimiento o por existir un contrato

**3 DERECHO A RECTIFICAR TUS DATOS**

- CUANDO SEAN INEXACTOS
- CUANDO ESTÉN INCOMPLETOS

**4 DERECHO A SUPRIMIR TUS DATOS**

- POR TRATAMIENTO ILÍCITO DE DATOS
- POR LA DESAPARICIÓN DE LA FINALIDAD QUE MOTIVÓ EL TRATAMIENTO O RECOGIDA
- CUANDO REVOCAS TU CONSENTIMIENTO
- CUANDO TE OPONES A QUE SE TRATEN

**5 DERECHO DE OPOSICIÓN AL TRATAMIENTO DE TUS DATOS**

- POR MOTIVOS PERSONALES SALVO QUE QUIEN TRATA TUS DATOS ACREDITE UN INTERÉS LEGÍTIMO
- CUANDO EL TRATAMIENTO TENGA POR OBJETO EL MARKETING DIRECTO

AGENCIA ESPAÑOLA DE PROTECCIÓN DE DATOS  
 www.agpd.es

El **consentimiento informado** es el procedimiento mediante el cual se garantiza que el sujeto ha expresado voluntariamente su intención de participar en la investigación, después de haber comprendido la información que se le ha dado, acerca de los objetivos del estudio, los beneficios, las molestias, los posibles riesgos y las alternativas, sus derechos y responsabilidades

([https://es.m.wikipedia.org/wiki/Consentimiento\\_informado](https://es.m.wikipedia.org/wiki/Consentimiento_informado))



Consentimiento Informado:  
¿Lo firmas o lo lees?



## Formulario de consentimiento

El formulario de consentimiento debe estar escrito en un lenguaje sencillo, sin jerga, y debe permitir que el participante responda claramente a puntos como:

- El participante ha leído y entendido la información sobre el proyecto.
- El participante ha tenido la oportunidad de hacer preguntas.
- El participante acepta voluntariamente participar en el proyecto.
- El participante entiende que puede retirarse en cualquier momento sin dar razones y sin penalización.
- Cómo se protegerá la confidencialidad, p. si se usarán nombres reales o seudónimos, cómo se anonimizarán los datos, etc.
- Términos de consentimiento separados para datos que pueden tener diferentes riesgos de divulgación, p. transcripciones de entrevistas anónimas, grabaciones de audio, videos, fotos
- Cómo se utilizarán los datos en las publicaciones
- Si los participantes están de acuerdo con el archivo y la reutilización de datos
- Firmas y fechas de firma para el participante y el investigador.
- El participante debe recibir una copia del formulario y el investigador debe conservar el original firmado.

<https://www.ukdataservice.ac.uk/manage-data/legal-ethical/consent-data-sharing/consent-forms>



**Consent Form for [name of project]**

*Please tick the appropriate boxes*

**Yes No**

**Taking Part**

I have read and understood the project information sheet dated DD/MM/YYYY.  Yes  No

I have been given the opportunity to ask questions about the project.  Yes  No

I agree to take part in the project. Taking part in the project will include being interviewed and recorded (audio or video).<sup>1</sup>  Yes  No

I understand that my taking part is voluntary; I can withdraw from the study at any time and I do not have to give any reasons for why I no longer want to take part.  Yes  No

**Use of the information I provide for this project only**

I understand my personal details such as phone number and address will not be revealed to people outside the project.  Yes  No

I understand that my words may be quoted in publications, reports, web pages, and other research outputs.  Yes  No

*Please choose **one** of the following two options:*

I would like my real name used in the above

I would not like my real name to be used in the above.

**Use of the information I provide beyond this project**

I agree for the data I provide to be archived at the UK Data Archive.<sup>2</sup>  Yes  No

I understand that other authenticated researchers will have access to this data only if they agree to preserve the confidentiality of the information as requested in this form.  Yes  No

I understand that other authenticated researchers may use my words in publications, reports, web pages, and other research outputs, only if they agree to preserve the confidentiality of the information as requested in this form.  Yes  No

**So we can use the information you provide legally**

I agree to assign the copyright I hold in any materials related to this project to [name of researcher].  Yes  No

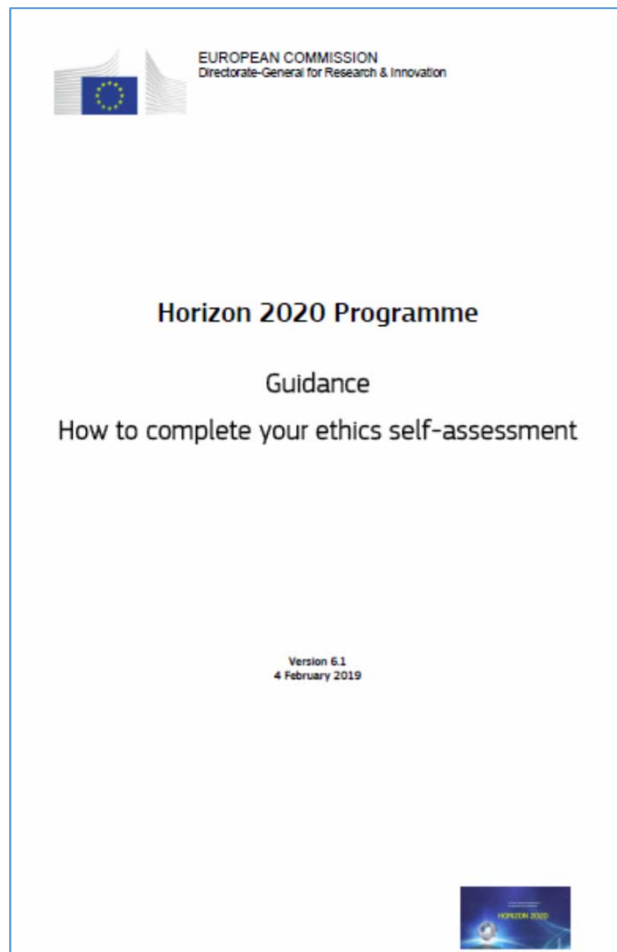
\_\_\_\_\_  
Name of participant [printed]      Signature      Date

\_\_\_\_\_  
Researcher [printed]      Signature      Date

Project contact details for further information: Names, phone, email addresses, etc.

**Notes:**

1. Other forms of participation can be listed.
2. More detail can be provided here so that decisions can be made separately about audio, video, transcripts, etc.



[https://ec.europa.eu/research/participants/data/ref/h2020/grants\\_manual/hi/ethics/h2020\\_hi\\_ethi\\_cs-self-assess\\_en.pdf](https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/ethics/h2020_hi_ethi_cs-self-assess_en.pdf)

#### 4.1 Ethics issues checklist

Section 4: PROTECTION OF PERSONAL DATA	YES/NO	Page	Information to be provided	Documents to be provided/kept on file
Does your research involve processing of personal data?	<input type="checkbox"/>	<input type="checkbox"/>	<p>1) Details of the technical and organisational measures to safeguard the rights of the research participants.</p> <p>For instance:</p> <p>For organisations that must appoint a DPO under the GDPR: Involvement of the data protection officer (DPO) and disclosure of the contact details to the research participants.</p> <p>For all other organisations: Details of the data protection policy for the project (i.e. project-specific, not general).</p> <p>2) Details of the informed consent procedures.</p> <p>3) Details of the security measures to prevent unauthorised access to personal data.</p> <p>4) How is all of the processed data relevant and limited to the purposes of the project ('data minimisation' principle)? Explain.</p> <p>5) Details of the anonymisation /pseudonymisation techniques.</p> <p>6) Justification of why research data will not be anonymised/ pseudonymised (if relevant).</p> <p>7) Details of the data transfers (type of data transferred and country to which it is transferred - for both EU and non-EU countries).</p>	1) Informed Consent Forms + Information Sheets used (if relevant).
if YES: - Does it involve the processing of special categories of personal data (e.g. genetic, health, sexual lifestyle,	<input type="checkbox"/>	<input type="checkbox"/>	<p>1) Justification for the processing of special categories of personal data.</p> <p>2) Why can the research objectives not be reached by processing anonymised/ pseudonymised data (if applicable)?</p>	

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EU Grants: Horizon 2020 Guidance — How to complete your ethics self-assessment: V6.1 – 04.02.2019

ethnicity, political opinion, religious or philosophical conviction)?	<input type="checkbox"/>	<input type="checkbox"/>		
- Does it involve processing of genetic, biometric or health data?	<input type="checkbox"/>	<input type="checkbox"/>		1) Declaration confirming compliance with the laws of the country where the data was collected.
- Does it involve profiling, systematic monitoring of individuals or processing of large scale of special	<input type="checkbox"/>	<input type="checkbox"/>	<p>1) Details of the methods used for tracking, surveillance or observation of participants.</p> <p>2) Details of the methods used for profiling.</p> <p>3) Risk assessment for the data processing activities.</p> <p>4) How will harm be</p>	1) Opinion of the data controller on the need for a data protection impact assessment (art.35 GDPR) (if relevant).



## Tools and templates

Data lifecycle

Plan to share

Legal and ethical

Rights

Document your data

Format your data

Store your data

Collaborative  
research

Training

● Tools and templates

Handbook

"Providing  
researchers with  
access to the tools  
they need"



SHARE 

This is our selection of tools and templates that researchers may find useful for various data management tasks in social sciences research:

- [Model consent form](#) (doc) that takes into account consent for data sharing and future data reuse
- [Sample survey consent statement](#) (doc) that considers consent for data sharing and future data reuse

<https://amnesia.openaire.eu/>

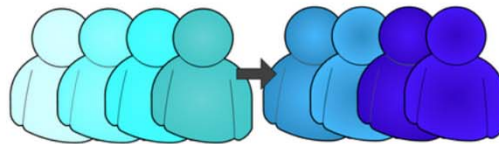


## Anonimización de datos

[Home](#) [Get Amnesia!](#) [What is Amnesia?](#) [Documentation](#) [On-Line version](#)  
[About](#)

# Amnesia

Amnesia is a data anonymization tool, that allows to remove identifying information from data. Amnesia not only removes direct identifiers like names, SSNs etc but also transforms secondary identifiers like birth date and zip code so that individuals cannot be identified in the data. Amnesia supports  $k$ -anonymity and  $k^m$ -anonymity.



**AS OPEN AS POSSIBLE, AS CLOSED AS NECESSARY**

Grantees have the right to **opt-out**, but need to say **why**

Top three reasons for opt-out:

- privacy
- intellectual property rights
- might jeopardise project's main objective

The approach has been tested during a Horizon 2020 pilot action

Year	Projects	Opted to share data
2015	of 431 signed projects	65.4%
from 2017	the current Open Research Data Pilot	expands to cover all areas of Horizon 2020, with the same rules

**¿Cumplen mis datos con los principios FAIR?**

Note: This page uses iframes. If you do not see the tool directly below, please try a different browser or turn on iframes in your settings.

Total across F.A.I.R

**Findable** i

Does the dataset have any identifiers assigned? No identifier ▾

Is the dataset identifier included in all metadata records/files describing the data? No ▾

How is the data described with metadata? The data is not described ▾

What type of repository or registry is the metadata record in? The data is not described in any repository ▾

**Accessible** i

How accessible is the data? No access to data or metadata ▾

Is the data available online without requiring specialised protocols or tools once access has been approved? No access to data ▾

Will the metadata record be available even if the data is no longer available? Unsure ▾



<https://fairaware.dans.knaw.nl/>



Let's assume you have research data almost ready for uploading to a repository: do you already know how you and the repository can work together to make the data as findable, accessible, interoperable and reusable (FAIR) as possible? By guiding you through the assessment process, the FAIR-Aware tool can help you to better understand the FAIR Principles [↗](#) and how making data FAIR can increase the potential value and impact of your data.

FAIR-Aware is an disciplinary-agnostic online tool developed by the FAIRsFAIR [↗](#) project. Different scientific communities can adapt it to their own use. You should, however, have a target dataset in mind to be able to answer the questions and complete the assessment.

<https://satisfyd.dans.knaw.nl/>



## SATIFYD

### Self-Assessment Tool to Improve the FAIRness of Your Dataset

Welcome to SATIFYD: the DANS Self-Assessment Tool to Improve the FAIRness of Your Dataset. This tool will show you how FAIR (Findable, Accessible, Interoperable, Reusable) your dataset is and will provide you with tips to score (even) higher on FAIRness. Ideally, you use this tool prior to the deposit in EASY.

The 12 questions touch upon the FAIR data principles [↗](#) but do not strictly follow them. While answering the questions, the score per letter will be displayed underneath each letter. The more 'blue' the letters get, the more FAIR your dataset is. An overall score is provided at the end of the page.

Some questions are posed more than once (e.g. on metadata and data standards or usage licences), because the topics are relevant in more than one letter.

Want to know more? Please click [here](#) ←

If you have any questions, please let us know by sending an e-mail [✉](#)

F

A

I

R

### FAIR questions

#### FINDABLE

- 1. Are you aware that a dataset should be assigned a globally unique persistent and resolvable identifier when deposited with a data repository?  Yes  No [i](#)
- 2. Are you aware that when you deposit a dataset with a repository, you will need to provide some details (known as discovery metadata) in order to make the data findable, understandable and reusable to others?  Yes  No [i](#)
- 3. Are you aware that the repository providing access to your dataset should make the metadata describing your datasets available in a format readable by machines as well as humans?  Yes  No [i](#)

#### ACCESSIBLE

- 4. Are you aware that access to your dataset may need to be controlled and that metadata should include licence information under which the data can be reused?  Yes  No [i](#)
- 5. Are you aware that metadata should remain available over time, even if the data is no longer accessible?  Yes  No [i](#)

#### INTEROPERABLE

- 6. Are you aware that the metadata describing your datasets should use semantic vocabularies?  Yes  No [i](#)

#### REUSABLE

- 7. Are you aware that provenance information about the collection and/or generation of data should be included in the metadata?  Yes  No [i](#)
- 8. Are you aware that metadata describing your data should follow the specifications of a community-endorsed standard?  Yes  No [i](#)
- 9. Are you aware that data should be deposited preferably in a file format that is open – to support reuse – and supported by the repository for long-term preservation?  Yes  No [i](#)
- 10. Are you aware that maintaining your dataset FAIR over time requires professional data curation and preservation?  Yes  No [i](#)

## Formulario de FAIR AWARE

### Feedback

Please answer the four questions below to help us improve the tool and make it even more relevant for the community.

- Which of the following issues do you find hard to understand and/or to answer?

- 1. Globally unique persistent identifier (PID)  [i](#)
- 2. Metadata for citation and discovery including PID  [i](#)
- 3. Metadata available online is readable by humans and machines  [i](#)
- 4. Metadata includes licence, level of access and conditions to access the data  [i](#)
- 5. Persistence of metadata  [i](#)
- 6. Use of controlled vocabularies in metadata  [i](#)
- 7. Metadata includes provenance  [i](#)
- 8. Community-endorsed metadata  [i](#)
- 9. Data in a preferred format for reuse & preservation  [i](#)
- 10. Digital curation and preservation  [i](#)

- Are there any issues relevant to your discipline and/or needed for enabling reusability of your dataset that are missing from this assessment? (Please do not include any personal data, such as your name and email address in your response.)

- Please submit any other feedback on how we might improve the FAIR-Aware assessment tool, including possible additional guidance. (Please do not include any personal data, such as your name and email address in your response.)

## SATIFYD

### Self-Assessment Tool to Improve the FAIRness of Your Dataset

Welcome to SATIFYD: the DANS Self-Assessment Tool to Improve the FAIRness of Your Dataset. This tool will show you how FAIR (Findable, Accessible, Interoperable, Reusable) your dataset is and will provide you with tips to score (even) higher on FAIRness. Ideally, you use this tool prior to the deposit in EASY.

The 12 questions touch upon the FAIR data principles but do not strictly follow them. While answering the questions, the score per letter will be displayed underneath each letter. The more 'blue' the letters get, the more FAIR your dataset is. An overall score is provided at the end of the page. Some questions are posed more than once (e.g. on metadata and data standards or usage licences), because the topics are relevant in more than one letter.

Want to know more? Please click [here](#) ←

If you have any questions, please let us know by sending an e-mail ✉



#### FINDABLE ⓘ

1. Did you provide sufficient metadata (information) about your data for others to find, understand and reuse your data? ⓘ

---

2. Did you use standards such as controlled vocabularies, taxonomies (thesauri) or ontologies to describe your dataset? ⓘ

Controlled vocabularies  
 Taxonomies (thesauri)  
 Ontologies  
 There are no standards for my discipline

3. Did you provide rich and detailed additional documentation? ⓘ

Readme file  
 Versioning  
 Provenance

#### ACCESSIBLE ⓘ

4. Is the metadata publicly accessible even if the data is no longer available? ⓘ

Yes  No  
 I can't find this information in EASY

# Herramienta para evaluar los datasets según los principios FAIR



The tool FairDataBR, aimed to evaluate data sets, was written from the perception of the need to develop a software application that contributed to the automation process of verifying the adherence of data sets to the FAIR Principles. The tool was designed by researchers from the Federal University of Paraíba (PPGCI / MPOGA - UFPB) and it is characterized by being simple and intuitive to use.

The FAIR principles idea emerged from the work of a diversified group of people who saw the immediate need to improve the infrastructure to support the sharing of research data and its subsequent reuse. Thus, based on these premises, a set of principles was developed to serve as guidelines for all who wish to share and enhance the reuse of research data (WILKINSON et al., 2016).

## FAIR PRINCIPLES

The FAIR Principles are an acronym for Findable, Accessible, Interoperable and Reusable. On the pioneer publication of a scientific paper on these principles, Wilkinson et al. (2016) stated that to research data be under these principles, they must follow the following guidelines:

To be Findable:	To be Accessible:	To be Interoperable:	To be Reusable:
F1. (Meta)data are assigned a globally unique and persistent identifier. F2. Data are described with rich metadata (defined by R1 below). F3. metadata clearly and explicitly include the identifier of the data it describes.	A1. (Meta)data are retrievable by their identifier using a standardized communications <a href="#">protocol</a> . A1.1. The protocol is open, free, and universally implementable. A1.2. the protocol	I1. (Meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation. I2. (Meta)data use vocabularies that follow FAIR principles. I3. (Meta)data include qualified references to	R1. meta(data) are richly described with a plurality of accurate and relevant attributes. R1.1. (Meta)data are released with a clear and accessible data usage license. R1.2. (Meta)data are associated with

Avaliação Fair

A screenshot of the FairDataBR evaluation form. The form is titled "FINDABLE PRINCIPLE" and contains five questions (F1-F5) with radio button options. F1 asks if (meta)data have a unique, global and persistent identifier, with options: Persistent Identifier, Web Address (selected), Local Identifier, and No Identifier. F2 asks if data are described with rich metadata, with options: Rich metadata, Structured metadata (selected), Simple metadata, and No metadata. F3 asks if metadata clearly and explicitly include the identifier of the data they describe, with options: Yes (selected) and No. F4 asks if (meta)data are registered or indexed in a searchable resource, with options: Yes and No (selected). F5 asks if (meta)data are published in a repository, with options: General repository, Domain specific, Institutional repository, and Not published in a repository.



## 5 ★ DATA RATINGS

The CSIRO 5-star Data Rating tool provides a self-assessment rating scheme against the social, technical and informational attributes of data. This tool provides implementations of the [FORCE 11 FAIR data principles](#). The 5-star scheme aims to help users understand how mature some data or a service is.

More details about the [CSIRO 5-star data rating scheme](#) can be found [here](#).

Findable ★★★★★  
Accessible ★★★★★  
Interoperable ★★★★★  
Reusable ★★★★★

## Self-assessment tool (version 1)

The following questionnaire provides you with a tool to assess whether your dataset meets the 5 ★ data criteria. After answering the questions, the tool displays a chart summarising your data according to the scheme.

Questionnaire	Results
<p>Tell us about your data</p> <p>... publication and indexing</p> <p>1 * Dataset identity</p>	<p>Findable ★★★★★ Accessible ★★★★★ Interoperable ★★★★★ Reusable ★★★★★ Trusted ★★★★★</p>

<https://fairassist.org/>

**FAIRassist is the new, under development, educational component of the well established [FAIRsharing](#) resource.**

FAIRassist is being designed to **offer personalised guidance to all stakeholders to discover standards and repositories in FAIRsharing**, which should be used to make data FAIR, as well as signpost other resources that enable FAIRness.

FAIRassist is under development, and it will implement a phased rollout of its content, working with and for the community. As an initial step, we are collecting and describing existing resources for the assessment and/or evaluation of digital objects against the [FAIR principles](#), which are aspirational. The focus is on manual questionnaires, checklists and automated tests that help users understand how to achieve a state of "FAIRness", and how this can be measured and improved. This is not intended to be a comprehensive list of all groups, projects and organizations that tackle FAIRness or FAIRification. If your resource is missing, you can submit it via the "Register resource" button below.

- Dónde localizar y depositar datasets



**Criteria for the Selection of Trustworthy Repositories.** Trustworthy repositories should meet the following minimum criteria:

### **Provision of Persistent and Unique Identifiers (PID)**

- Allow data discovery and identification
- Enable searching, citing, and retrieval of data
- Provide support for data versioning

### **Metadata**

- Enable finding of data
- Enable referencing to related relevant information, such as other data and publications
- Provide information that is publicly available and maintained, even for non-published, protected, retracted, or deleted data
- Use metadata standards that are broadly accepted (by the scientific community)
- Ensure that metadata are machine-retrievable

### **Data Access and Usage Licences**

- Enable access to data under well-specified conditions
- Ensure data authenticity and integrity
- Enable retrieval of data
- Provide information about licensing and permissions (in ideally machine-readable form)
- Ensure confidentiality and respect rights of data subjects and creators

### **Preservation**

- Ensure persistence of metadata and data
- Be transparent about mission, scope, preservation policies, and plans (including governance, financial sustainability, retention period, and continuity plan)



## Open source research data repository software



Researchers

Enjoy full control over your data. Receive *web visibility, academic credit, and increased citation counts*. A personal Dataverse collection is easy to set up, allows you to display your data on your personal website, can be branded uniquely as your research program, makes your data more discoverable to the research community, and satisfies data management plans. [Want to set up your personal Dataverse collection?](#)



Journals

Seamlessly manage the submission, review, and publication of data associated with published articles. Establish an *unbreakable link* between *articles in your journal* and *associated data*. Participate in the open data movement by using a Dataverse collection as part of your journal data policy or list of repository recommendations. [Want to find out more about journal Dataverse collections?](#)



Institutions

Establish a research data management solution for your community. Federate with a growing list of Dataverse repositories worldwide for increased discoverability c in the drive to set norms for sharing, preserving, citing, exploring to install a Dataverse repository?



Developers

Participate in a vibrant and growing community that is helping preserving, citing, exploring, and analyzing research data. Con documentation, testing, and/or standards. *Integrate research an tools, or other research and data archival systems with the Dat*

### PKP-Dataverse Integration Project

Dataverse collaboration with the Public Knowledge Project (PKP)

[Contact](#)



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#### Project Documentation

##### General Project Documentation

- [Project FAQ](#)
- [High Level: OJS-Dataverse plugin workflow](#) (visual)
- [Plugin Use Cases Workflow](#) (text, more in-depth)
- [Video: OJS-Dataverse Plugin Demo](#)
- [OJS-Dataverse Plugin Guide](#): step by step instructions for admins, editors, reviewers, and authors.
- [Boilerplate Data Sharing, Citation & Review Policies](#)
- Publications:
  - [Article on the project in IJDC \(2014 Vol. 9 Issue 1\)](#)

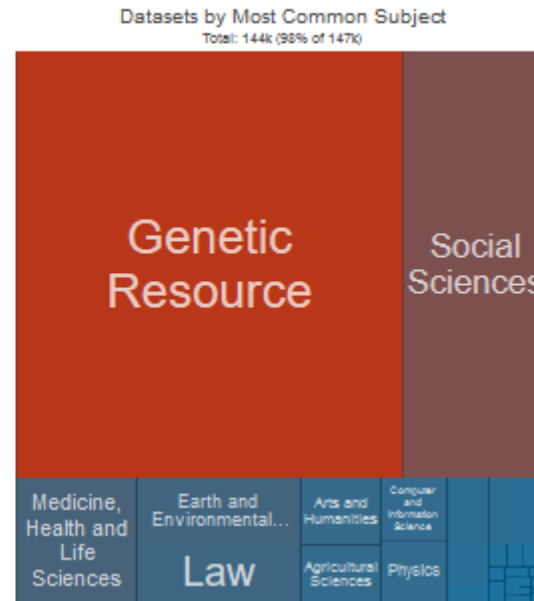
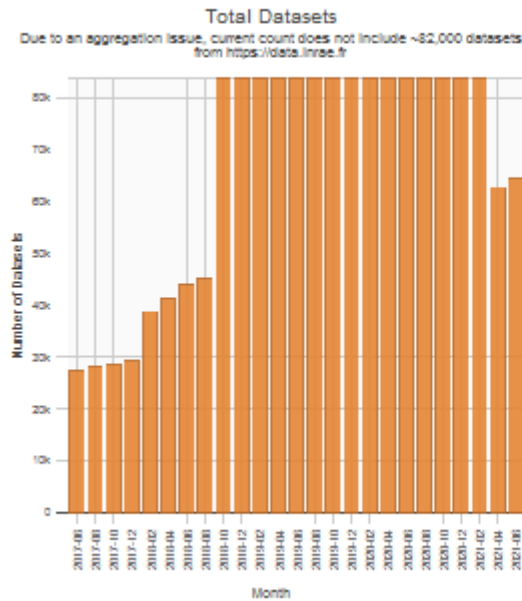
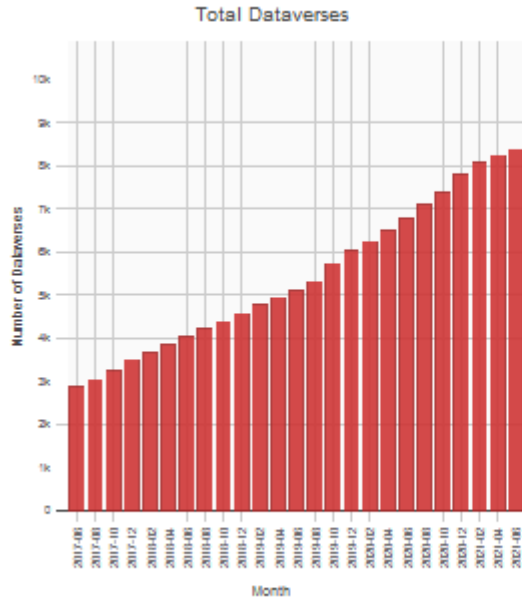
##### Plugin & API Development Documentation (For Developers)

- [OJS Dataverse Plugin: on GitHub](#)
  - [Plugin setup guide](#)
- [Dataverse Network Data Deposit API - \(SWORDv2-based\)](#)



<http://dataverse.org/>

<https://dataversemetrics.odum.unc.edu/>



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<https://edatos.consorciomadrono.es/dataverse/Madrono>

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**Dataverses (13)** **1 to 10 of 13 Results** [Sort ▾](#)

- Datasets (531)**
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[Catálogos de Barrios Vulnerables de España 1991, 2001 y 2011](#) (vps181.cesvima.upm.es/re-hab/bbv) [Open](#)  
Jan 14, 2021 [Repositorio de Datos UPM](#)

https://dataverse.csuc.cat/



## Repositori de dades de recerca

Metrics

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**eiNa DMP**  
Pla de Gestió de Dades de Recerca

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## Welcome

This tool helps you to create, review, and share data management plans that meet institutional and funder requirements. Join the growing number of researchers that have adopted **eiNa DMP**:



509 Users



306 Plans

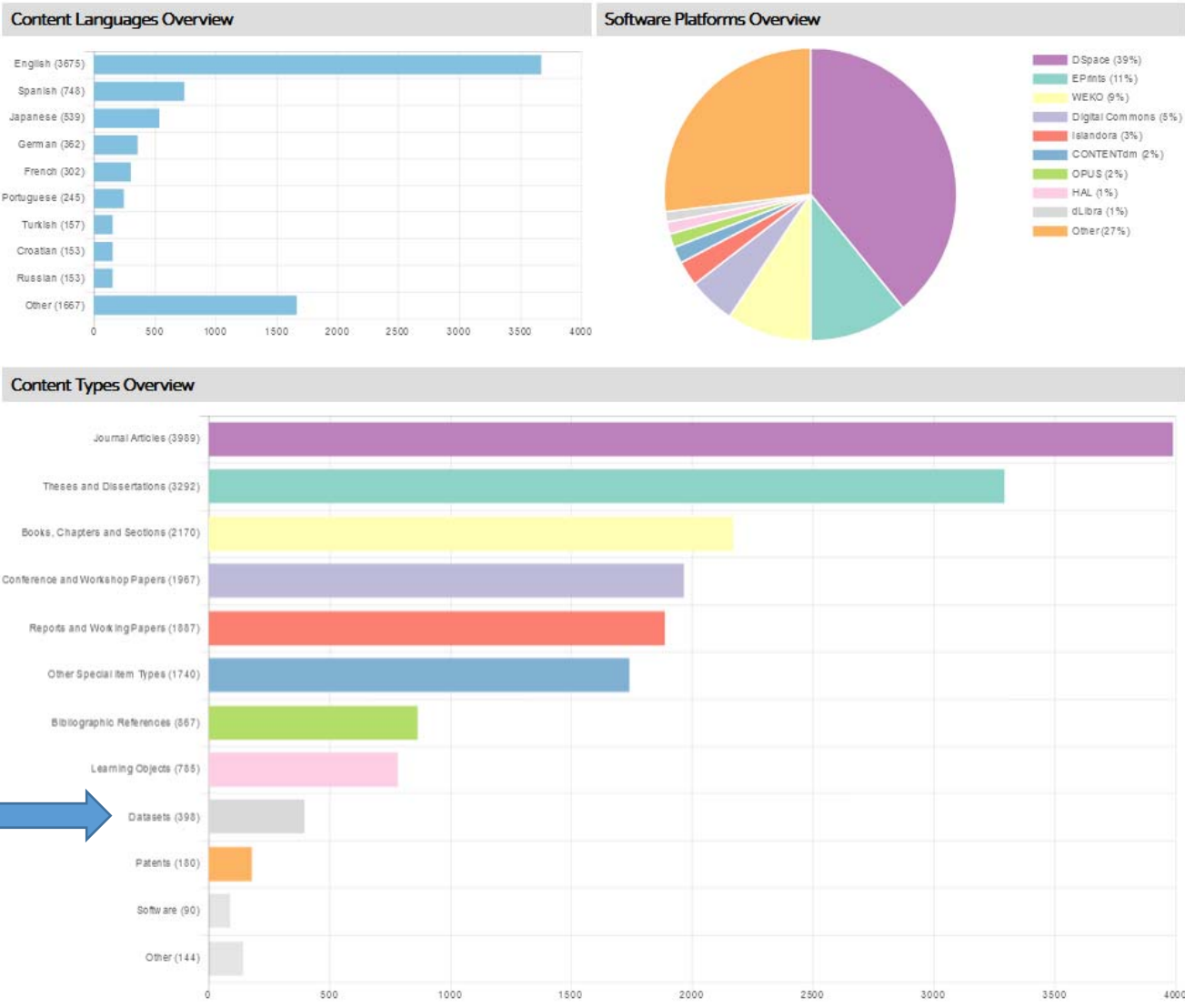


15 Organisations



10 simple rules for creating a good data management plan

[https://v2.sherpa.ac.uk/view/repository\\_visualisations/1.html](https://v2.sherpa.ac.uk/view/repository_visualisations/1.html)



# Repositorio “generalista”

<https://zenodo.org/deposit/new>

zenodo

## New upload

**Instructions:** (i) Upload minimum one file or fill-in required fields (marked with a red star). (ii) Press "Save" to save your upload for editing later. (iii) When ready, press "Publish" to finalize and make your upload public.

Files

Drag and drop files here

— or —

(minimum 1 file required, max 50 GB per dataset - contact us for larger datasets)

If you're experiencing issues with uploading larger files, read our [FAQ section](#) on file upload issues.

Communities  recommended

Specify communities which you wish your upload to appear in. The owner of the community will be notified, and can either accept or reject your request. Please make sure your record complies with the content policy of the communities you add; reported abuse will be followed by account inactivation.

Upload type  required

Publication

Poster

Presentation

Dataset

Image

Video/Audio

Software

Lesson

Physical object

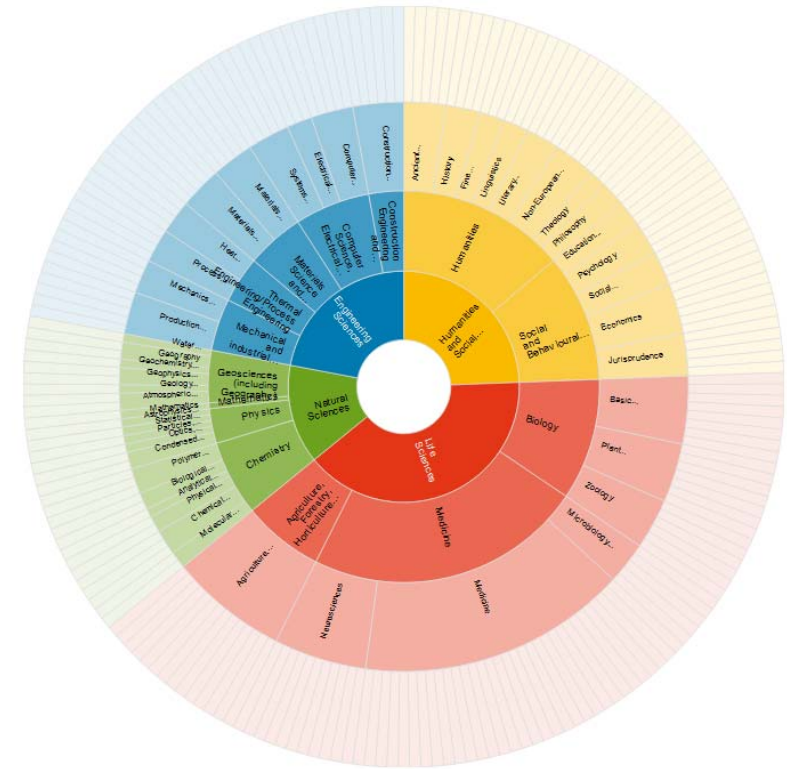
Other

Publication type

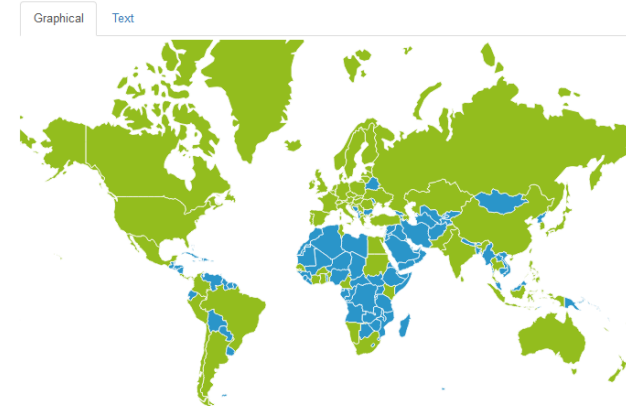
Publication type.



<http://www.re3data.org/>



Browse by country



German Research Foundation to fund new services of re3data

Since its launch in 2012, re3data has become the resource of information about research data repositories. It indexes and provides extensive information about more

Data sharing made easier: use Repository Finder to find the right repository for your data

More and more funders and publishers require research data to be made available in appropriate repositories, but

2,000 Data Repositories and Science Europe Framework for Discipline-specific Research Data Management

http://www.re3data.org/

The screenshot displays the re3data.org website interface. At the top, the logo 're3data.org' is on the left, and navigation links for 'Search', 'Browse', 'Suggest', 'Resources', and 'Contact' are on the right. A 'DataCite' logo is also present. Below the navigation bar, there is a search bar with the text 'Search...' and a search button. To the right of the search bar, there are links for 'Toggle short help' and 'Sort by'. Below the search bar, there are navigation buttons: '← Previous', '1', and 'Next →'. The main content area shows 'Found 8 result(s)'. The first result is 'International Institute of Tropical Agriculture datasets', which is an 'International Institute of Tropical Agriculture CKAN repository'. It has subject tags for 'Agriculture, Forestry, Horticulture and Veterinary Medicine', 'Life Sciences', 'Plant Breeding', 'Plant Cultivation', 'Plant Nutrition', 'Plant Genetics', and 'Humanities and Social Sciences'. The content type is 'Standard office documents', 'Databases', 'Scientific and statistical data formats', 'Structured text', and 'other'. The country is 'International'. A description follows: 'IITA conducts research on the following thematic areas: Biotechnology and genetic improvement, Natural resource management, Social science and agribusiness, and Plant production and plant health.' The second result is 'CSISA Data Repository', which is the 'Cereal Systems Initiative for South Asia (CSISA) Research Data'. It has subject tags for 'Agriculture, Forestry, Horticulture and Veterinary Medicine', 'Life Sciences', 'Plant Nutrition', 'Agricultural Economics and Sociology', 'Plant Breeding', and 'Plant Cultivation'. The content type is 'Standard office documents', 'Scientific and statistical data formats', 'Software applications', and 'Source code'. The country is 'International', 'United States', and 'India'. A detailed description follows: 'In keeping with the open data policies of the U.S. Agency for International Development (USAID) and Bill & Melinda Gates Foundation, the Cereal Systems Initiative for South Asia (CSISA) has launched the CSISA Data Repository to ensure public accessibility to key data sets, including crop cut data- directly observed, crop yield estimates, on-station and on-farm research trial data and socioeconomic surveys. CSISA is a science-driven and impact-oriented regional initiative for increasing the productivity of cereal-based cropping systems in Bangladesh, India and Nepal, thus improving food security and farmers' livelihoods. CSISA generates data that is of value and interest to a diverse audience of researchers, policymakers and the public. CSISA's data repository is hosted on Dataverse, an open source web application developed at Harvard University to share, preserve, cite, explore and analyze research data. CSISA's repository contains rich datasets, including on-station trial data from 2009–17 about crop and resource management practices for sustainable future cereal-based cropping systems. Collection of this data occurred during the long-term, on-station research trials conducted at the Indian Council of Agricultural Research – Research Complex for the Eastern Region in Bihar, India. The data include information on agronomic management for the sustainable intensification of cropping systems, mechanization, diversification, futuristic approaches to sustainable intensification, long-term effects of conservation agriculture practices on soil health and the pest spectrum. Additional trial data in'

**Filter**  
Reset all

**Subjects** ▾

- Humanities and Social Sciences (1)
- Life Sciences (8)
  - Biology (5)
    - Basic Biological and Medical Research (2)
    - Bioinformatics and Theoretical Biology (1)
  - Plant Sciences (5)
    - Plant Systematics and Evolution (1)
    - Plant Biochemistry and Biophysics (1)
    - Plant Genetics (2)
  - Medicine (1)
    - Medicine (1)
    - Nutritional Sciences (1)
  - Agriculture, Forestry, Horticulture and Veterinary Medicine (8)
    - Agriculture, Forestry, Horticulture and Veterinary Medicine (8)
      - Soil Sciences (3)
      - Plant Cultivation (8)
        - Plant Nutrition (3)
        - Ecology of Agricultural Landscapes (2)
        - Plant Breeding (5)
        - Agricultural and Food Process Engineering (1)
        - Agricultural Economics and Sociology (3)
        - Inventory Control and Use of Forest Resources (1)
        - Basic Forest Research (1)
- Natural Sciences (1)
  - Chemistry (1)
    - Biological Chemistry and Food Chemistry (1)
    - Biological and Biomimetic Chemistry (1)
  - Engineering Sciences (1)
    - Computer Science, Electrical and System Engineering (1)
    - Computer Science (1)
      - Operating, Communication and Information Systems (1)

**Content Types** ▾

**Countries** ▾

**AID systems** ▾

**API** ▾

**Data access** ▾

**Data access restrictions** ▾

Search...

Toggle short help

Sort by ▾

← Previous 1 Next →

Found 8 result(s)

**International Institute of Tropical Agriculture datasets**  
International Institute of Tropical Agriculture CKAN repository

Subject(s) Agriculture, Forestry, Horticulture and Veterinary Medicine Life Sciences Plant Breeding Plant Cultivation Plant Nutrition Plant Genetics Humanities and Social Sciences

Content type(s) Standard office documents Databases Scientific and statistical data formats Structured text other

Country International

IITA conducts research on the following thematic areas: Biotechnology and genetic improvement, Natural resource management, Social science and agribusiness, and Plant production and plant health.

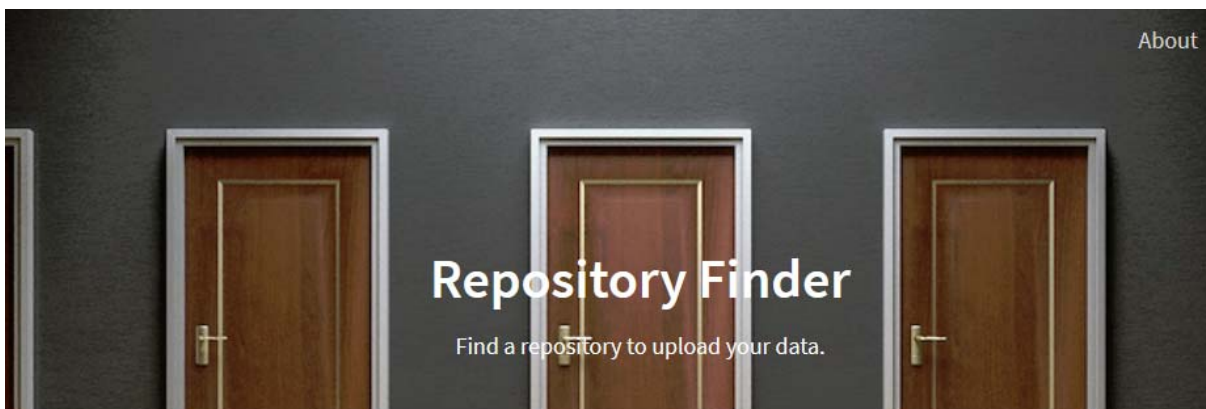
**CSISA Data Repository**  
Cereal Systems Initiative for South Asia (CSISA) Research Data

Subject(s) Agriculture, Forestry, Horticulture and Veterinary Medicine Life Sciences Plant Nutrition Agricultural Economics and Sociology Plant Breeding Plant Cultivation

Content type(s) Standard office documents Scientific and statistical data formats Software applications Source code

Country International United States India

In keeping with the open data policies of the U.S. Agency for International Development (USAID) and Bill & Melinda Gates Foundation, the Cereal Systems Initiative for South Asia (CSISA) has launched the CSISA Data Repository to ensure public accessibility to key data sets, including crop cut data- directly observed, crop yield estimates, on-station and on-farm research trial data and socioeconomic surveys. CSISA is a science-driven and impact-oriented regional initiative for increasing the productivity of cereal-based cropping systems in Bangladesh, India and Nepal, thus improving food security and farmers' livelihoods. CSISA generates data that is of value and interest to a diverse audience of researchers, policymakers and the public. CSISA's data repository is hosted on Dataverse, an open source web application developed at Harvard University to share, preserve, cite, explore and analyze research data. CSISA's repository contains rich datasets, including on-station trial data from 2009–17 about crop and resource management practices for sustainable future cereal-based cropping systems. Collection of this data occurred during the long-term, on-station research trials conducted at the Indian Council of Agricultural Research – Research Complex for the Eastern Region in Bihar, India. The data include information on agronomic management for the sustainable intensification of cropping systems, mechanization, diversification, futuristic approaches to sustainable intensification, long-term effects of conservation agriculture practices on soil health and the pest spectrum. Additional trial data in'



Repository Finder, a pilot project of the [Enabling FAIR Data Project](#) led by the American Geophysical Union (AGU) in partnership with DataCite and the Earth, space and environment sciences community, can help you find an appropriate repository to deposit your research data. The tool is hosted by DataCite and queries the re3data registry of research data repositories.

As part of the [FAIRsFAIR project](#), which aims to supply practical solutions for the use of the FAIR data principles throughout the research data life cycle, the Repository Finder is extended to query for repositories relevant to FAIRsFAIR Project.

Search re3data for a repository to upload your data

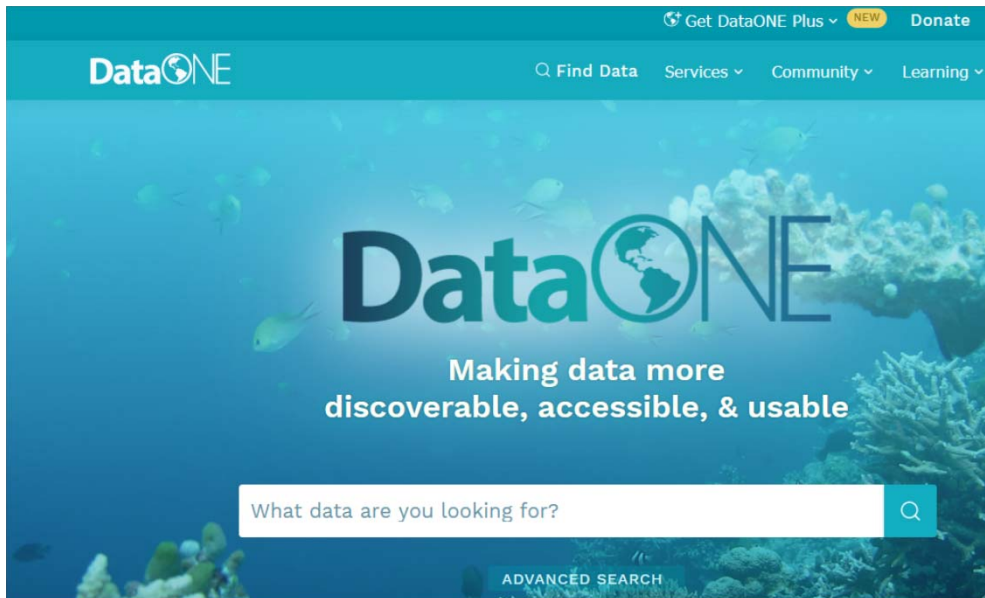
 

or

[See the repositories](#) in re3data that meet the criteria of the Enabling FAIR Data Project.

[See the repositories](#) in re3data that meet the criteria of the FAIRsFAIR Project.

Permite localizar repositorios que siguen los principios FAIR, indexados en el directorio re3data



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Search phrase

Filter by:

- Data attribute
- Annotation
- Data files
- Member Node
- Creator
- Year
- Identifier
- Taxon
- Location

Datasets 1 to 25 of 825,800

1 2 3 ... 33,032 Next

Sort by Most recent

**LTER** Santa Barbara Coastal LTER, Daniel C Reed, and Robert J Miller. 2021. **SBC LTER: Reef: Abundance, size and fishing effort for California Spiny Lobster (*Panulirus interruptus*), ongoing since 2012.** LTER Network Member Node. <https://pasta.lternet.edu/package/metadata/em/knb-lter-sbc/77/6>.

88 158

**ARM** Krista Gaustad and Timothy Garrett. 2021. **Multi-Angle Snowflake Camera Particle Analysis, averaged - mascparticlesavg.** ARM - Atmospheric Radiation Measurement Research Facility. doi:10.5439/1350636, version: 783e4b3ad57238112a340c0b34ce91fb.

**ARM** Martin Stuefer, Scott Smith, and Telayna Wong. 2020. **camera to monitor sea state - camseastate.** ARM - Atmospheric Radiation Measurement Research Facility. doi:10.5439/1511978, version: f9f4372c64ff901c06f929642c112080.

**ARM** Krista Gaustad and Timothy Garrett. 2021. **Multi-angle Snowflake Camera, analysis per particle (Images and their aggregation) - mascparticles.** ARM - Atmospheric Radiation Measurement Research Facility. doi:10.5439/1350635, version: ea54dc9b0960185c74a3a5e89e11d020.

**ARM** Lynn Ma and Richard Wagener. 1997. **Cimel Sunphotometer (CSPHOT): aerosol optical depth, filtered data, version 3 - csphtaodfiltqav3.** ARM - Atmospheric Radiation Measurement Research Facility. doi:10.5439/1461660, version: bb5ab7e3b54a57c60347e375657d3099.




Hide Map »

182	379	7711	309	229	30	25	26	19	27
369	902	2855	503	16	121	85	29	9	36
565	394	1380	1205	295	150	62	210	6	75
392	351	372	354	792	340	316	175	63	307
37	112	489	4679	2027	1459	5992	2532	330	
79	76	97	12139	5264	9049	1666	4988	17240	1
15	54	88	141	773	43443	13308	5967	6616	12932
179	51	94	247	294	6860	18979	2113	12132	3394
126	772	233	229	49	203	1286	1025	9154	2058
198	2326	1101	107	51	66	384	489	902	926
167	107	73	593	125	192	235	1193	639	716
100	176	250	1040	226	101	642	408	2208	231
314	256	436	1902	385	349	791	576	1278	319
323	155	96	225	500	840	77			

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Discover metadata with DataCite Commons



Integrate with DataCite API

# Generalist Repository Comparison Chart Management Group | RDA (rd-alliance.org)



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Active Organisational & Affiliate members

**MEMBERSHIP** Members: 11857

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CG

## Generalist Repository Comparison Chart Management Group

Taxonomy:

  
Posts

  
Create Wiki index

  
Events

  
Repository

  
Outputs

  
Case Statements

  
Plenaries

  
Members

Group Status:

## Generalist Repository Comparison Chart

doi:10.5281/zenodo.3946720

This chart is designed to assist researchers in finding a generalist repository should no domain repository be available to preserve their research data. Generalist repositories accept data regardless of data type, format, content, or disciplinary focus. For this chart, we included a repository available to all researchers specific to clinical trials (Vivli) to bring awareness to those in this field.

<https://fairsharing.org/collection/GeneralRepositoryComparison>

TOPIC	HARVARD DATAVERSE	DRYAD	FIGSHARE	MENDELEY DATA	OSF	VIVLI	ZENODO
<b>Brief Description</b>	Harvard Dataverse is a free data repository open to all researchers from any discipline, both inside and outside of the Harvard community, where you can share, archive, cite, access, and explore research data.	Open-source, community-led data curation, publishing, and preservation platform for CC0 publicly available research data Dryad is an independent non-profit that works directly with: <ul style="list-style-type: none"> <li>researchers to publish datasets utilizing best practices for discovery and reuse</li> <li>publishers to support the integration of data availability statements and data citations into their workflows</li> <li>institutions to enable scalable campus support for research data management best practices at low cost</li> </ul>	A free, open access, data repository where users can make all outputs of their research available in a discoverable, reusable, and citable manner. Users can upload files of any type and are able to share diverse research products including datasets, code, multimedia files, workflows, posters, presentations, and more. With discoverable metadata supporting FAIR principles, file visualizations, and integrations, researchers can make their work more impactful and move research further faster.	Mendeley Data is a free repository specialized for research data. Search more than 20+ million datasets indexed from 1000s of data repositories and collect and share datasets with the research community following the FAIR data principles.	OSF is a free and open source project management tool that supports researchers throughout their entire project lifecycle in open science best practices.	Vivli is an independent, non-profit organization that has developed a global data-sharing and analytics platform. Our focus is on sharing individual participant-level data from completed clinical trials to serve the international research community.	Powering Open Science, built on Open Source. Built by researchers for researchers. Run from the CERN data centre, whose purpose is long term preservation for the High Energy Physics discipline, one of the largest scientific datasets in the world

<https://fairsharing.org/collection/GeneralRepositoryComparison>

<https://www.rd-alliance.org/sites/default/files/Generalist%20Repository%20Comparison%20Chart.pdf>

# A global clinical research data sharing platform

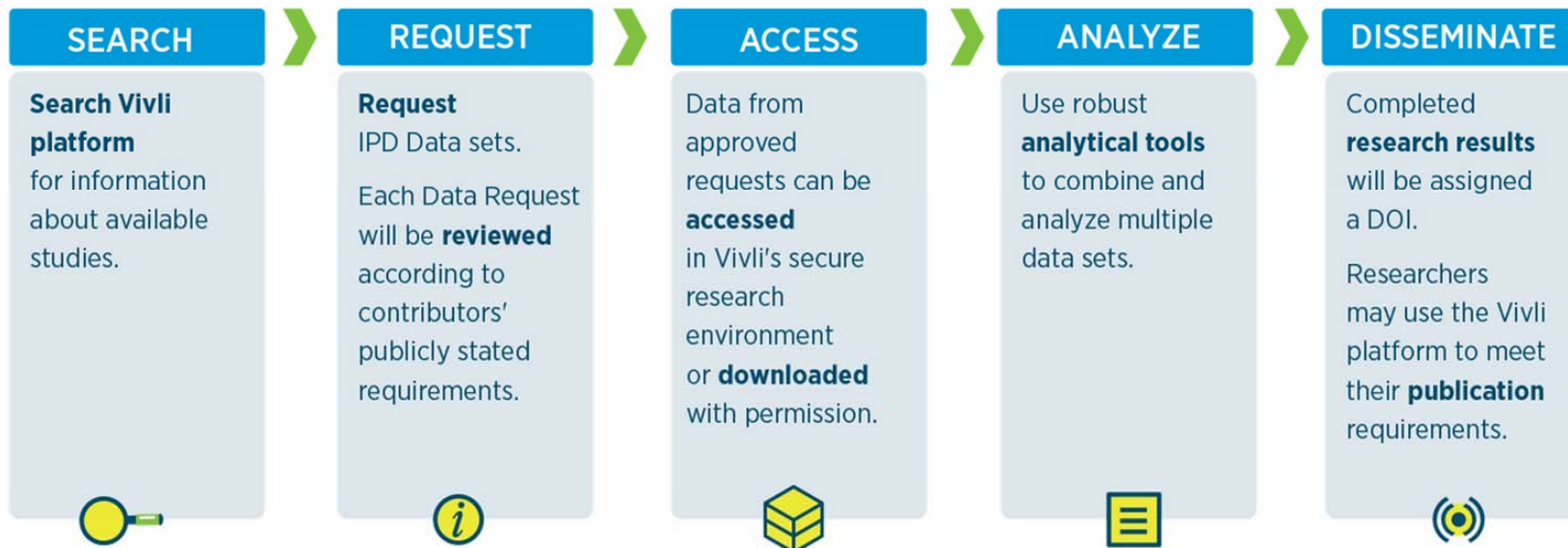
The Vivli team is dedicated to helping researchers share and access data from clinical trials to advance science.

[BEGIN SEARCHING FOR STUDIES](#)

<https://vivli.org/>

Vivli provides a **global data-sharing and analytics platform** to serve all elements of the international research community.

Users may **search for studies**, **request data packages**, and **analyze data sets** within a secure research environment.





# https://fairsharing.org/

## HOW CAN WE HELP?

We guide consumers to discover, select and use these resources with confidence, and producers to make their resource more discoverable, more widely adopted and cited.



### Developers & curators of resources

Make your standard, database or repository discoverable, increasing exposure and credit outside your immediate community and promoting adoption...  
[read more]

Researchers

Developers & Curators

Journal Publishers

Librarians & Trainers

Societies & Alliances

Funders

Find

#### Recommendations

Standards and/or databases recommended by journal or funder data policies.

Discover

#### Collections

Standards and/or databases grouped by domain, species or organization.

Learn

#### Educational

About standards, their use in databases and policies, and how we can help you.

My funder's data policy recommends the use of established standards, but which are widely endorsed and applicable to my **crop** data?

Which are the **mature standards** and **standards-compliant databases** that we should recommend to our authors?



RESEARCHERS



FUNDERS & JOURNAL EDITORS



CURATORS & DEVELOPERS



LIBRARIANS & DATA MANAGERS



We need a standard for **sharing social science data**, what's out there and who should we talk to?

I have some old **rice genomic data** in format X, which is now **deprecated**; what format has replaced X?

# Gestión de datos de investigación

La gestión de datos de investigación se refiere a las operaciones intrínsecas al manejo de los datos de investigación durante y después de una actividad de investigación:

- Recopilación (qué)
- Organización (cómo)
- Almacenamiento (dónde)
- Documentación (cómo)
- Preservación (cómo)
- Puesta en Circulación (cómo, dónde)

Una buena gestión de los datos ayuda a garantizar que los investigadores compartan sus datos de forma FAIR (localizables, accesibles, interoperables y reutilizables).

- Un plan de gestión de datos (PGD) sirve para planificar, organizar y documentar cómo se van a obtener o se han obtenido los datos en el marco de un proyecto de investigación.
- El plan de gestión de datos es un documento vivo que va modificándose o actualizándose en función del desarrollo de una investigación.
- Es recomendable hacer un plan de gestión de datos al inicio del proyecto e ir creando versiones nuevas en función de los posibles cambios que se deriven durante su ejecución.

# Ciclo de vida de los datos

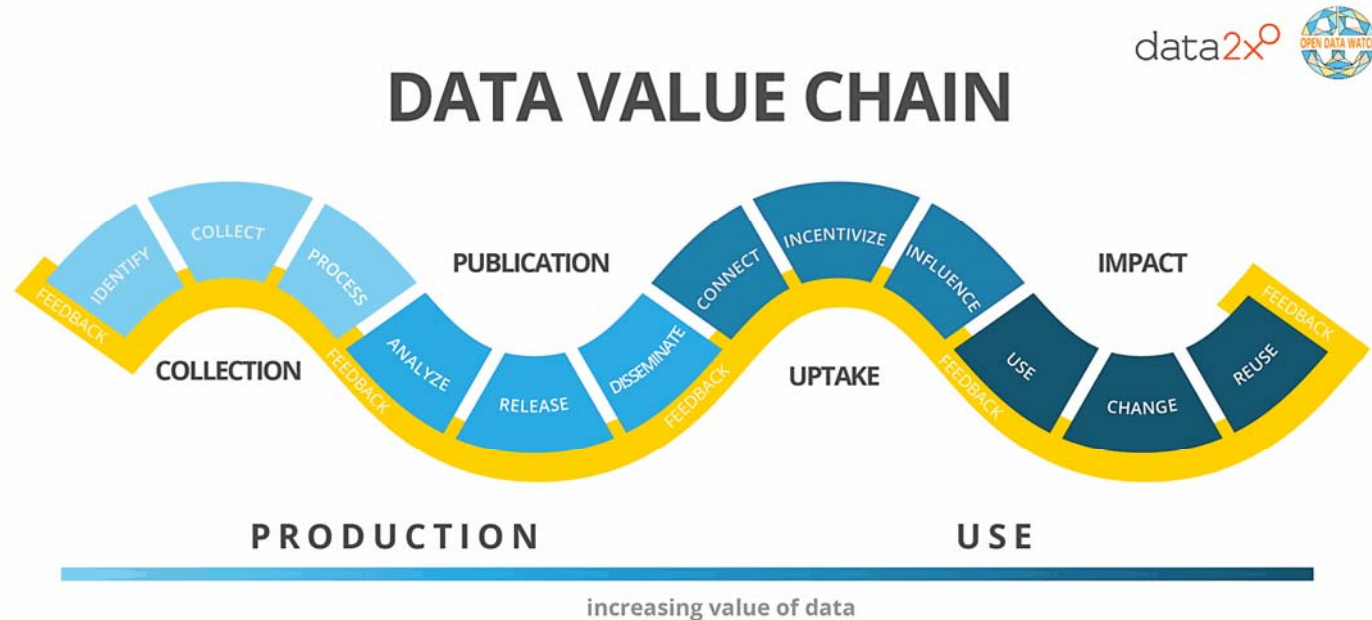


La cadena de valor de los datos describe el proceso de creación y uso de los mismos, desde la identificación de una necesidad de datos hasta su uso final y su posible reutilización.

Consta de cuatro etapas principales:

- Recopilación: identificar, recopilar, procesar
- Publicación: analizar, publicar, difundir
- Absorción/asimilación : conectar, incentivar, influir
- Impacto: utilizar, cambiar y reutilizar

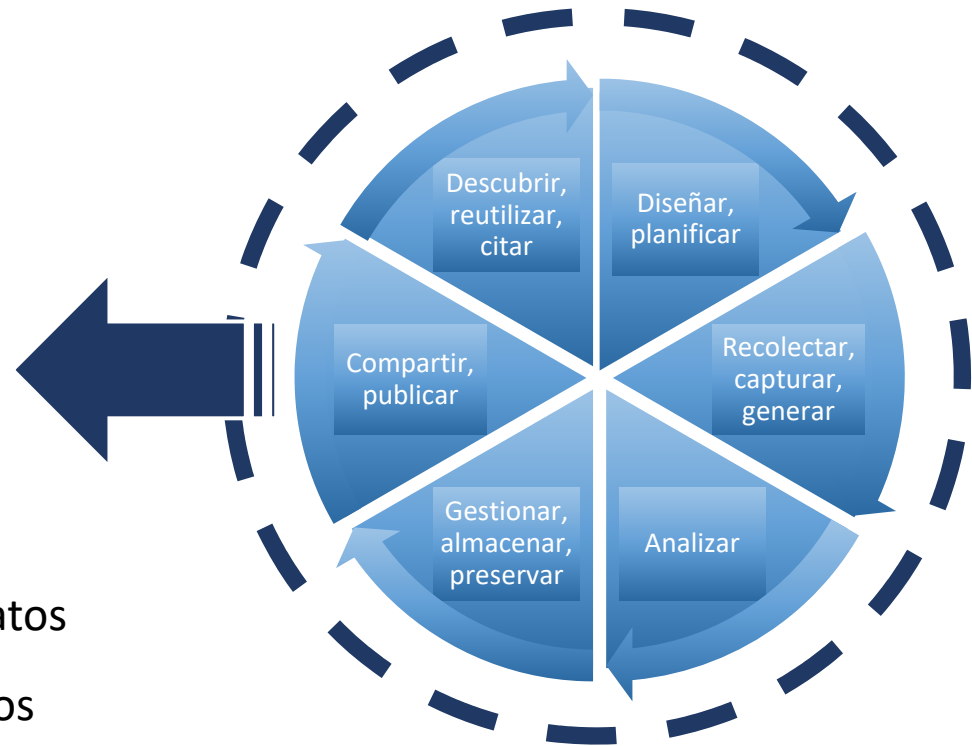
Con una retroalimentación constante entre los productores y las partes interesadas.



# ¿Qué debe contemplar un plan de gestión de datos?

(mínimos)

- Contexto
- Descripción de los datos que se van a tomar o crear
- La metodología y estándares para la recolección de datos
- Aspectos éticos y relacionados con la propiedad intelectual, si corresponde
- Vías para compartir y acceder a los datos
- Estrategia para la preservación de datos



**Las instituciones o agencias financiadoras pueden tener especificaciones propias**

# Que, porqué, cómo de PGD



<https://youtu.be/gYDb-GP1CA4>



### **Los componentes comunes de un DMP son:**

- Información general sobre el proyecto.
- Descripción de los conjuntos de datos que se utilizarán y generarán.
- Uso de metadatos, ontologías y la forma en que se proporcionará la documentación de los datos.
- Soluciones de almacenamiento, seguridad de los datos y estrategia de conservación durante y después del proyecto.
- Uso compartido de los datos.
- Costes y recursos necesarios para la gestión de los datos.
- Cuestiones éticas y jurídicas, como la privacidad, la propiedad intelectual y las licencias.

### **Ventajas de elaborar un plan de gestión de datos**

- Suele ser un requisito de las organizaciones de investigación y los financiadores.
- Ayuda a planificar y presupuestar los recursos y equipos necesarios.
- Define las funciones y responsabilidades en la gestión de datos entre el equipo del proyecto.
- Ayuda a identificar los riesgos en el manejo de los datos y a aplicar soluciones en una fase temprana.
- Facilita el intercambio, la reutilización y la conservación de los datos.

<https://scienceeurope.org/our-resources/practical-guide-to-the-international-alignment-of-research-data-management/>



## Practical Guide to the International Alignment of Research Data Management



Aspectos básicos a responder en un plan de gestión de datos.....

## **1. Descripción de los datos y recogida o reutilización de los datos existentes.**

- a. ¿Cómo se recogerán o generarán los nuevos datos y/o cómo se reutilizarán los datos existentes?
- b. ¿Qué datos (por ejemplo, el tipo, los formatos y los volúmenes) se recogerán o producirán?

## **2. Documentación y calidad de los datos**

- a. ¿Qué metadatos y documentación (por ejemplo, la metodología de recogida de datos y la forma de organizarlos) acompañarán a los datos?
- b. ¿Qué medidas de control de calidad de los datos se utilizarán?

## **3. Almacenamiento y copia de seguridad durante el proceso de investigación**

- a. ¿Cómo se almacenarán los datos y los metadatos y se harán copias de seguridad durante el proceso de investigación?
- b. ¿Cómo se cuidará la seguridad de los datos y la protección de los datos sensibles durante la investigación?

## **4. Requisitos legales y éticos, códigos de conducta**

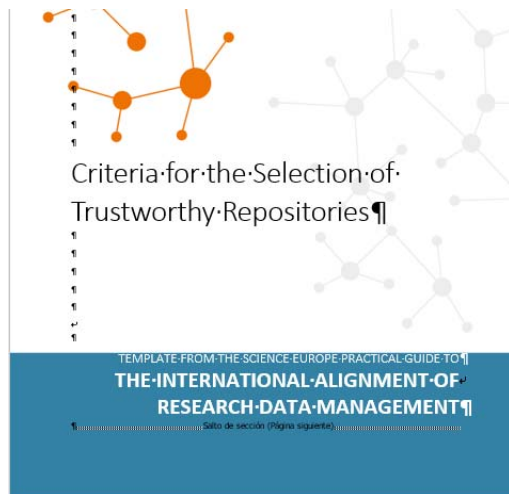
- a. Si se tratan datos personales, ¿cómo se garantizará el cumplimiento de la legislación sobre datos personales y sobre seguridad de los datos?
- b. ¿Cómo se gestionarán otras cuestiones legales, como los derechos de propiedad intelectual y la titularidad? ¿Qué legislación es aplicable?
- c. ¿Cómo se tendrán en cuenta las posibles cuestiones éticas y se respetarán los códigos de conducta?

## **5. Intercambio de datos y conservación a largo plazo**

- a. ¿Cómo y cuándo se compartirán los datos? ¿Existen posibles restricciones para compartir los datos o razones de embargo?
- b. ¿Cómo se seleccionarán los datos para su conservación y dónde se conservarán a largo plazo (por ejemplo, en un depósito o archivo de datos)?
- c. ¿Qué métodos o herramientas informáticas se necesitarán para acceder a los datos y utilizarlos?
- d. ¿Cómo se garantizará la aplicación de un identificador único y persistente (p.e. un DOI) a cada conjunto de datos?

## **6. Responsabilidades y recursos para la gestión de los datos**

- a. ¿Quién (por ejemplo, función, cargo e institución) será responsable de la gestión de los datos (es decir, el administrador de los datos)?
- b. ¿Qué recursos (por ejemplo, financieros y de tiempo) se dedicarán a la gestión de datos y a garantizar que los datos sean FAIR (Localizables, Accesibles, Interoperables, Reutilizables)?



## **Provision of Persistent and Unique Identifiers (PID)**

Allow data discovery and identification

Enable searching, citing, and retrieval of data

Provide support for data versioning

### **Metadata**

Enable finding of data

Enable referencing to related relevant information, such as other data and publications

Provide information that is publicly available and maintained, even for non-published, protected, retracted, or deleted data

Use metadata standards that are broadly accepted (by the scientific community)

Ensure that metadata are machine-retrievable

## **Data Access and Usage Licences**

Enable access to data under well-specified conditions

Ensure data authenticity and integrity

Enable retrieval of data

Provide information about licensing and permissions (in ideally machine-readable form)

Ensure confidentiality and respect rights of data subjects and creators

### **Preservation**

Ensure persistence of metadata and data

Be transparent about mission, scope, preservation policies, and plans (including governance, financial sustainability, retention period, and continuity plan)



## 10 pasos para elaborar un Plan de Gestión de Datos

Un **Plan de Gestión de Datos** (PGD) o Data Management Plan (DMP) es un **documento formal, que debe presentarse al inicio de la investigación, en el que se describe qué**

**vas a hacer con tus datos durante y después de finalizar tu investigación** y que puede modificarse si se producen cambios en el proceso de la misma.

**¿Por qué?**  
Es una **buena práctica**, es un **elemento clave de Open Science** y es **obligatorio** en los nuevos proyectos H2020.

### Herramientas gratuitas para elaborar un PGD

  
PGDonline  
(Consortio Madroño)  
<http://dmp.consortiomadroño.es/>

  
DMPonline (Digital Curation  
Centre, UK)  
<https://dmponline.dcc.ac.uk/>



01  
Revisa los **requerimientos** de la entidad financiadora (H2020).



02  
**Identifica los datos:** tipología, procedencia, volumen, formatos y ficheros.



03  
**Define cómo se organizarán y gestionarán los datos:** nombre de los ficheros, control de versiones, software necesario...



04  
**Explica cómo se documentarán los datos:** identifica la información a procesar, consulta si hay estándares o esquemas de metadatos, identifica herramientas que permitan gestionarlos.



05  
Describe los procesos que aseguran una **buena calidad de los datos**.



06  
**Prepara una estrategia de almacenamiento** (durante el proceso) y de preservación de datos (repositorio).



07  
**Define las políticas de datos del proyecto:** cuestiones sobre propiedad intelectual y cómo se tratarán los datos sensibles y personales.



08  
**Describe cómo se difundirán los datos:** dónde, cuáles, cuándo se van a difundir. Si publicarás los datos en un repositorio, como información suplementaria del artículo o como un "data paper".



09  
**Asigna roles y responsabilidades** para las personas y organizaciones participantes en el proyecto.



10  
**Prepara un presupuesto realista:** la gestión de datos cuesta tiempo y dinero en términos de software, hardware, servicios y personal.





## Personal data and the Open Research Data



### How can OpenAIRE help?

Briefing paper for researchers, research administrators and project coordinators

### The EC Open Research Data Pilot

Open data is data that is free to use, reuse and redistribute. The EC Open Research Data Pilot (ORDP) enables open access to and reuse of research data generated by Horizon 2020 projects. The Pilot applies primarily to the data (and metadata) needed to validate results in scientific publications, as well as other data specified in the Data Management Plan (DMP).

Projects participating in the Pilot are required to deposit their research data in a research data repository and take measures to enable third parties to access, mine, exploit, reproduce and disseminate this data.

However, the concept of the free use of research data within the Pilot may conflict with data protection rules if such data contain personal data.

### What is personal data?



"Personal data" means any information relating to a natural person who is either identified or could be identified by that data (e.g., by reference to an identifier such as a name, an identification number, location data, online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that person).

Data protection rules always apply wherever personal data is being processed. Processing here includes practically any operation in connection with personal data – including collection, recording, organisation, structuring, storage, adaptation or alteration, retrieval, consultation, use, disclosure by transmission, dissemination or otherwise making available, alignment or combination, restriction, erasure or destruction.



### Dealing with Personal Data

### How to balance open access and data protection?

#### So what's the problem?

**Research data** – especially in fields like medicine, biotechnology and the social sciences – often contain personal data. This means that many datasets, in their raw form, cannot be made openly available as required by the ORDP due to conflicts with rules on protection of personal data.

Hence, incompatibility with data protection regulations is one of the major reasons for opting out of the ORDP. However, opting out of the Pilot is not the only way to prevent possible infringements.

Firstly, even if one particular dataset is unsuitable for sharing, the same project might produce other datasets which are. Secondly, even if datasets contain personal data, they might still be able to be shared either through (1) anonymisation, or in limited cases, (2) targeted sharing.

#### Anonymisation of personal data?

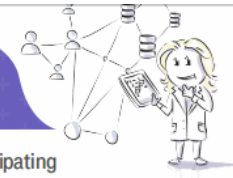
The best way to fulfil the requirements of the **Open Research Data Pilot** and **data protection rules** at the same time is to anonymise personal (research) data before making them openly available.

**Anonymised data** are no longer personal data, consequently data protection rules are no longer applicable.

Effective **anonymisation** prevents third parties from re-identifying individuals in anonymised datasets, i.e., associating a record to a natural person by using other sources of information. Moreover, anonymisation provides further privacy guarantees that prevent third parties from inferring that a person is associated with a certain property, e.g., a particular health condition, with high probability, or even to infer the participation of a person in a published dataset.

When possible, data anonymisation is the best solution to avert data protection risks.

## Open Research Data in Horizon 2020 How can OpenAIRE help?



### Are you a Researcher, Project Coordinator or Research Manager participating in a EC project? What, where and how to share your Data?

#### What is the Open Research Data?

Open data is data that is free to use, reuse and redistribute. The Open Research Data enables open access and the reuse of research data generated by Horizon 2020 projects. Open Access to data underlying their scientific publications.

Participating projects are required to:

- Develop (and keep up-to-date) a Data Management Plan (DMP).
- Deposit their data in a research data repository.
- Ensure that third parties can freely access, mine, exploit, reproduce and disseminate it.
- Make clear what tools are needed to use the raw data to validate research results (or provide the tools themselves).

#### What's in it for you?

- Be part of the new era of Open Science, integrating transparency, effectiveness and timeliness into all areas of scientific methods and processes.
- Reach more people, have greater impact.
- Avoid duplication of effort and help preserve data for future researchers.
- Simplify final reporting by keeping your DMP up-to-date.



How can OpenAIRE help? OpenAIRE provides a range of resources, FAQs, webinars and support pages.

OpenAIRE has local representatives in all EU countries: the National Open Access Desks, or NOADs. Contact them via our helpdesk system at

<https://www.openaire.eu/support/helpdesk>

If there is no disciplinary or institutional repository available, researchers are welcome to use the Zenodo repository provided by OpenAIRE and hosted by CERN.

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

### Do you have a Horizon 2020 grant? Do you manage your data in a FAIR way?

#### Are you still part of the Pilot?

Projects covered by the Work Programme 2017 are part of the Open Data Pilot by default. As of Work Programme 2017, the Pilot has been extended to all areas of Horizon 2020 (except "co-fund" and "prizes" instruments, ERC PoC, SME instrument Ph1 actions, ERA-NET Cofund actions that do not produce data).

If your project started before then and stems from one of following H2020 areas, you are automatically part of the Pilot as well:

- Future and Emerging Technologies.
- Research infrastructures – part e-Infrastructures.
- Leadership in enabling and industrial technologies – Information and Communication Technologies.
- Nanotechnologies, advanced.

- Societal Challenge: Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy.
- Societal Challenge: Europe in a changing world – inclusive, innovative and reflective Societies.
- Science with and for Society.
- Cross-cutting activities - focus areas – part Smart and Sustainable Cities.

#### Can you opt out?





We hope you won't, but projects may opt out of the Pilot at any stage, partially or completely. See the EC Guide on OA for eligible reasons.

Note that in multi-beneficiary projects it is also possible for specific beneficiaries to keep their data closed if relevant provisions are made in the consortium agreement, which are in line with the reasons for opting out.



Herramientas para crear un plan  
de gestión de datos


## Herramientas para crear planes de gestión de datos

Tool or resource ⓘ	Description	Tags	Registry
Argos	Plan and follow your data. Bring your Data Management Plans closer to where data are generated, analysed and stored.	DMP researcher data manager	
DMP Canvas Generator	Questionnaire, which generates a pre-filled a DMP	DMP researcher data manager	
DMP OPIDoR	Online questionnaire for the development of data management plans - repository of DMPs	DMP researcher data manager	
DMP Planner	Semi-automatically generated, searchable catalogue of resources that are relevant to data management plans.	DMP researcher data manager	
DMPonline	A free tool to write, share and export a data management plan. Built-in data management plan templates for many major funders.	DMP researcher data manager	
DMPonline Belgium	A free tool to write, share and export a data management plan. Instance aimed at Belgian researchers with built-in data management plan templates for the major funders.	DMP researcher data manager	
DMPTool	Build your Data Management Plan	DMP researcher data manager	
DMPTuuli Finland	Data management planning tool	DMP researcher data manager	
DS-Wizard	Data Stewardship Wizard	DMP researcher data manager IT support nets	
EasyDMP	DMP creation, versioning and sharing	DMP researcher data manager	
maDMP - Research Bridge	Machine-Actionable Data Management Plan   Webinar (2016) on making a good data management plan.	DMP IT support	
OTP	One Touch Pipeline (OTP) is a data management platform for running bioinformatics pipelines in a high-throughput setting, and for organising the resulting data and metadata.	human data metadata DMP data analysis	
Research Management Plan	Machine actionable DMPs.	DMP researcher data manager	

[https://rdmkit.elixir-europe.org/data\\_management\\_plan.html#relevant-tools-and-resources](https://rdmkit.elixir-europe.org/data_management_plan.html#relevant-tools-and-resources)

<https://dmptool.org/>

Learn Sign in Language



**DMPTool**  
Build your Data Management Plan

✔ Notice: You will receive an email with instructions to reset your password in a few minutes.

**Welcome to the DMPTool**  
Create data management plans that meet institutional and funder requirements.

Get started

**DMPONLINE** Home Public DMPs Funder requirements Help

## Plan to make data work for you

Data Management Plans that meet institutional funder requirements.

<https://www.dcc.ac.uk/dmponline>



[https://dmponline.dcc.ac.uk/public\\_plans](https://dmponline.dcc.ac.uk/public_plans)



- INICIO
- CREAR UN PGD
- PGDOnline
- DOCUMENTOS
- FAQs
- AS

## PA GO DA - PLAN de Gestión de DATos

### Crear su Plan de Gestión de Datos

El Plan de Gestión de Datos lo solicita un agente financiador como parte de las condiciones del contrato de subvención para un proyecto científico.

El Programa Horizonte 2020 requiere que los proyectos que formen parte del Piloto de Datos de Investigación en Abierto entreguen un Plan de Gestión de Datos completo durante los 6 primeros meses del proyecto.

Los planes de gestión de datos son una parte integral de las solicitudes de subvenciones - no pueden ser una idea de último momento; los revisores buscarán evidencia de que la gestión de datos está incluida en su propuesta, y que forma parte integral de su proceso de investigación. En el artículo 29.3 del H2020 Model Grant Agreement: Multi-beneficiary General MGA: December 2013 se establecen las obligaciones de los participantes en el Piloto de Datos de Investigación en Abierto en lo que respecta a la gestión de los datos.

El documento Directrices sobre la Gestión de los Datos en Horizonte 2020 se dirige a los solicitantes y beneficiarios de los proyectos en el Marco del Piloto de Datos de Investigación en Abierto y su objetivo es proporcionar indicaciones sobre cómo pueden cumplir con sus responsabilidades con respecto a la calidad de los datos de investigación, su intercambio y su seguridad.

PGDOnline-madroño

<http://pgd.consorciomadrono.es/>

<https://dmp.csuc.cat/>

<https://www.dmptuuli.fi/>



Version française

Home About Help Terms of Use

Signed out successfully

DMP Assistant is a bilingual tool for preparing data management plans (DMPs). The tool follows best practices in data stewardship and walks researchers step-by-step through key questions about data management.

- Step 1 Sign up with DMP Assistant
- Step 2 Sign in and select a template under Organizations. The Portage template is the default.
- Step 3 Answer the questions that are relevant to your work. Guidance and examples are provided.
- Step 4 Revisit the tool throughout your research to review or revise your answers.

Sign in

If you have an existing account with DMP Assistant or previous version of DMP Builder.

Sign up

New to DMP Assistant? Sign up today.

Please note that we are currently working on single sign-in authentication. For now, please create a new DMP Assistant account. You will have the option to link your DMP Assistant account to your campus ID when that feature becomes available.

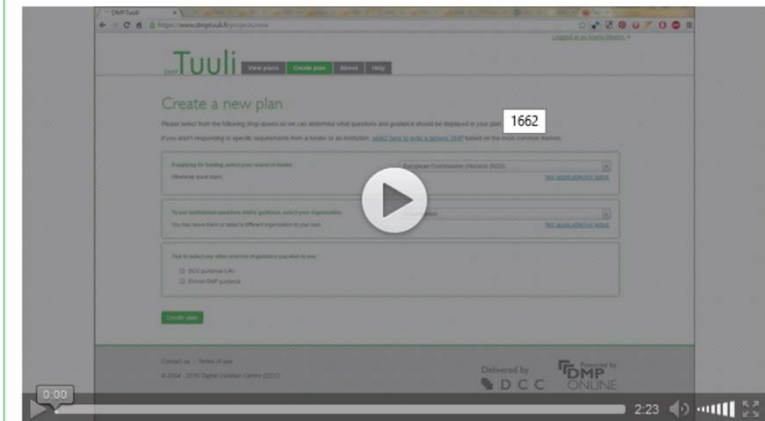
<https://assistant.portagenetwork.ca/?locale=en>



Welcome.

Data management planning tool Tuuli will help you write data management plans.

Screencast on how to use DMPTuuli



https://pgd.consociomadrono.es/

Inicio

Acerca de

Recursos electrónicos

Servicios

InvestigAM – Ciencia Ab

[🏠](#) > [InvestigAM – Ciencia Abierta](#)

## INVESTIGAM -Portal de Ciencia Abierta



InvestigAM, el portal de ciencia abierta del [Consortio Madroño](#), tiene por finalidad la difusión de los resultados de la actividad investigadora que se lleva a cabo en sus instituciones miembro y asociadas, lo que incluye tanto publicaciones como datos de investigación. Se inscribe en el compromiso del Consorcio Madroño y sus universidades miembro con el Acceso Abierto y la Ciencia Abierta (OpenScience).

### e-cienciaDatos

[e-cienciaDatos](#) es un repositorio de datos multidisciplinar que alberga los conjuntos de datos científicos de los investigadores de las universidades públicas de la Comunidad de Madrid y la UNED, miembros del Consorcio Madroño, con el fin de dar visibilidad a dichos datos, garantizar su preservación y facilitar su acceso y reutilización.

[Medición del Acceso Abierto en el Consorcio Madroño \(2015-2019\)](#)

[Estimación de costes de publicación por pago de APC](#)

[Declaración Ciencia Abierta](#)

[Aumento de descargas en repositorios durante el confinamiento \(2020\)](#)

### Publicaciones científicas

[Buscador de tesis](#)

[¿Cómo depositar publicaciones?](#)



[🏠](#) > [InvestigAM – Ciencia Abierta](#) > [PaGoDa](#)

## INVESTIGAM: PAGODA

Un Plan de Gestión de Datos es un documento que describe el tratamiento que van a recibir los datos de investigación recopilados o generados en el curso de un proyecto de investigación. El Consorcio Madroño ofrece la herramienta [PGDOnline](#), adaptación y traducción al español de la herramienta de gestión DMPonline desarrollada por el Digital Curation Centre del Reino Unido, así como también las [directrices para la Gestión de Datos en Horizonte 2020](#).

PaGoDa además le ofrece [material de apoyo](#) y un [servicio de asesoramiento](#) en cada una de las bibliotecas miembros.

El Programa Marco de Investigación e Innovación de la Unión Europea [Horizonte 2020](#) incluyó un Piloto de Datos de Investigación en Acceso Abierto cuyo objetivo es garantizar el acceso y la reutilización de los datos generados en el ámbito de proyectos participantes.

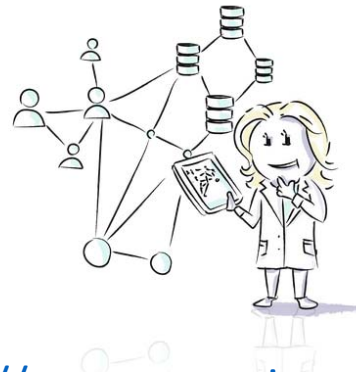
En la [Comunicación de la Comisión "Iniciativa Europea de Computación en la Nube: construir en Europa una economía competitiva de los datos y del conocimiento"](#) (19 abril 2016) se indica que a partir de 2017 "La Comisión convertirá la apertura de los datos de la investigación en la opción por defecto, previendo no obstante opciones de exclusión, para todos los proyectos nuevos del programa Horizonte 2020".

El Programa Horizonte 2020 requiere que los proyectos que formen parte del Piloto de Datos de Investigación en Abierto entreguen un Plan de Gestión de Datos completo durante los 6 primeros meses del proyecto.

# Plan and follow your data

- Create** machine actionable DMPs.
- Configure** to best fit your discipline.
- Link** to EOSC components out of the box.
- Share** easily in your repository.

Bring your Data Management Plans closer to where data are generated, analysed and stored.



Start your DMP

<https://argos.openaire.eu/splash/>

Adding dataset (unsaved changes) Descartar Grabar Save & Close Save & Add New

To DMP: prueba en argos [🔗](#)

[← Back to PGD](#)

Guía paso a paso

**0. Información principal (5)**

- 1 Data Summary
- 2 Reusable Data
- 3 FAIR Data
- 4 Allocation of resources
- 5 Data Security
- 6 Ethical aspects
- 7 Other

[← Anterior](#)
> Siguiente

**1.1 Title of Dataset\***

**1.2 Descripción**

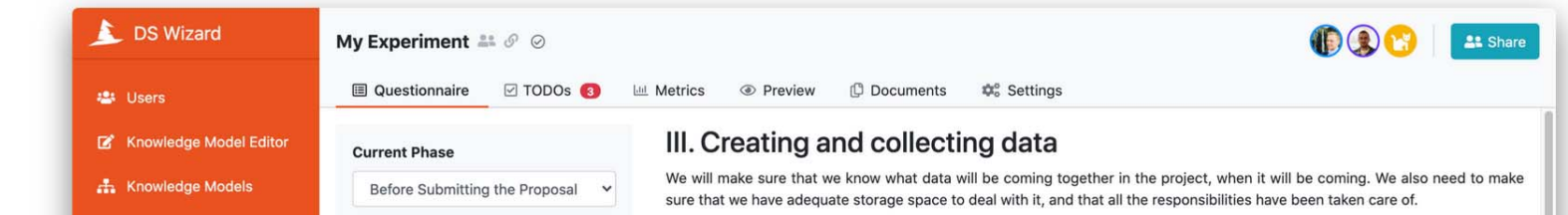
A brief description of what the PGD is about it's scope and objectives.

**1.3 Etiquetas**

**1.4 Plantilla\***

# Create Smart Data Management Plans for FAIR Open Science

▶ Watch video



## Get Started Using the Data Stewardship Wizard


Demo	Researchers	Self-Managed	DSW Cloud
For exploring the DSW features	For individual researchers	For organizations	For organizations
<ul style="list-style-type: none"> <li>• Easy to sign up and use</li> <li>• A shared instance with other users</li> <li>• <b>Not for serious usage</b></li> </ul>	<ul style="list-style-type: none"> <li>• Easy to sign up and use</li> <li>• Ready to use Knowledge Models</li> <li>• Privacy and stability</li> </ul>	<ul style="list-style-type: none"> <li>• All the DSW features available</li> <li>• Your own instance</li> <li>• You need to host and run the instance by yourself</li> </ul>	<p>We offer managing the DS Wizard instance for interesting projects that want to use it seriously but don't want to run it by themselves.</p>
<ul style="list-style-type: none"> <li>✓ Questionnaires &amp; DMPs</li> <li>✓ Knowledge Models Management</li> </ul>	<ul style="list-style-type: none"> <li>✓ Questionnaires &amp; DMPs</li> </ul>	<ul style="list-style-type: none"> <li>✓ Questionnaires &amp; DMPs</li> <li>✓ Knowledge Models Management</li> <li>✓ User Management &amp; Organization Settings</li> </ul>	<ul style="list-style-type: none"> <li>✓ Questionnaires &amp; DMPs</li> <li>✓ Knowledge Models Management</li> <li>✓ User Management &amp; Organization Settings</li> </ul>

<https://ds-wizard.org/>



Acceso por EUDAT, hay que identificarse/registrarse

**easy.DMP**  
Create data management plans

Your plans   Help    rmelero@iata.csic.esddb02eba03bb494e   Log out

# Choose a template

Show  entries   Search:

Template	Version	Description	
Horizon 2020	1	Simplified template based on Horizon 2020 guidelines.	<a href="#">Use</a>
Horizon 2020 Expert	1	A shorter template based on Horizon 2020 that assumes knowledge of data management.	<a href="#">Use</a>
NINA data management plan	1	Template for the Norwegian Institute for Nature Research	<a href="#">Use</a>
Science Europe	2	Template for data management plans based on the Science Europe guidelines.	<a href="#">Use</a>
Sigma2 Data Management Plan	1	Data management plan for Sigma2 resource allocation.	<a href="#">Use</a>

Showing 1 to 5 of 5 entries   Previous   **1**   Next

<https://dmp.vital-it.ch/#/form>

### About the DMP Canvas Generator

This is a tool aiming to help scientists generate Data Management Plans for SNSF funded projects. The produced Word document is compliant with the [SNSF instructions for DMP creation](#) and consists of generic paragraphs corresponding to the user's inputs. The produced document structure follows the structure of the [SNSF DMP questionnaire](#). The document must be further modified before submission to reflect the specific aspects of the project. Vital-IT is not responsible for the final submitted version of the document.

### Project name and description

Enter project name

Please provide a small description for your project: (optional for SNSF)

### A. Data that will be collected / generated ?

- |   |  |
|---|--|
| <input type="checkbox"/> Genomic data           | <input type="checkbox"/> Proteomic data      |
| <input type="checkbox"/> Transcriptomic data    | <input type="checkbox"/> Lipidomic data      |
| <input type="checkbox"/> Metabolomic data       | <input type="checkbox"/> Microscopy images   |
| <input type="checkbox"/> Molecular Biology data | <input type="checkbox"/> Flow cytometry data |
| <input type="checkbox"/> Other...               |  |

### B. Analysis that will be generated ?

- |  |  |
|--|--|
| <input type="checkbox"/> R                 | <input type="checkbox"/> MATLAB        |
| <input type="checkbox"/> Spreadsheet files | <input type="checkbox"/> Custom script |
| <input type="checkbox"/> Other...          |  |

### C. Questions on data collection

1. Will there be any use of human subjects or samples? YES NO
2. Will there be any use of vertebrate subjects or samples? YES NO

Data life cycle +

Your role +

Your domain +

Your problem +

All tools and resources

Tools assembly +

### Are you working with data in the Life Sciences? Do you feel overwhelmed when you think about Research Data Management?

The ELIXIR Research Data Management Kit (RDMkit) is an online guide containing good data management practices applicable to research projects from the beginning to the end. Developed and managed by people who work every day with life science data, the RDMkit has guidelines, information, and pointers to help you with problems throughout the data's life cycle. RDMkit supports FAIR data — Findable, Accessible, Interoperable and Reusable — by-design, from the first steps of data management planning to the final steps of depositing data in public archives.

The RDMkit organises information into the six sections displayed below, which are interconnected but can be browsed independently.

#### Data life cycle

Start here to get an overview of research data management. Click on a section of the diagram below to get an introduction to that stage of the data management life cycle.



#### Your role

Identify your role in research data management, find data

#### Your domain

Learn about the data management problems that affect


<https://bfe-inf.github.io/toolkit/index.html>


Belmont Forum e-I&DM


Home DDOMP Guide Data Management Training Best Practices & Standards GitHub

# E-INFRASTRUCTURES & DATA MANAGEMENT TOOLKIT

Providing training and educational resources for data discovery, management, and curation across the globe, in support of an international collaborative effort to enable open access to scientific data

 **DDOMP Researcher Guide**  
Sources and tips for creating a successful DDOMP

 **Data Management Training**  
Webinars, courses, certifications, and literature

 **Best Practices & Standards**  
Guidelines for effective data management

# RDM Starter Kit

Home > Resources > RDM Starter Kit

> [GO FAIR Materials](#)

This page is supposed to serve as a Starter Kit for research resources designed to help researchers get started to

## Where to find a suitable research data repository and RDM support

- [FAIRsharing](#): searchable curated registry of databases, repositories, (inter-related to) data/metadata standards, and data policies by journals/publishers and funders (International)
- [RatSWD](#): 31 data centers accredited by the German Data forum according to uniform and transparent standards (Germany)
- [re3data.org](#): Registry of Research Data Repositories with detailed information about over 2000 research data repositories (International)

## Research Data Management Plans

- [Data Stewardship Wizard](#) created by ELIXIR CZ and NL
- [DMPonline](#) of the Digital Curation Centre (DCC), UK
- [DMPTool](#) of University of California Curation Center of the California Digital Library (CDL), USA
- [RDMO Research Data Management Organiser](#) of the German Research Foundation, Germany
- [Data Management Plan Catalogue](#) of the LIBER Research Data Management Working Group
- [Practical Guide on Research Data Management](#), developed by experts from Science Europe Member Organisations

<https://www.go-fair.org/resources/rdm-starter-kit/>

<https://www.dcc.ac.uk/guidance/how-guides/>

<https://data.research.cornell.edu/content/best-practices>



Because good research needs good data

Home » [Guidance](#)

## How-to Guides

Our Guides and Checklists are aimed at the those in research data management support roles.

### How-to Guides

How-to Guides provide working-level knowledge of curation topics. Each provides background concepts and practical steps aiming to help people in research or support roles implement data management capabilities in their organisation, or better align them with best practices.

- [Using RISE, as a capability model for self-assessing RDM services](#)
- [Appraise and select research data](#)
- [Cite datasets and link to publications](#)
- [Develop a data management and sharing plan](#)
- [Develop research data management services](#)
- [Discover requirements for RDM services](#)
- [License research data](#)
- [Track the impact of research data with metrics](#)
- [Write a lay summary](#)

Change cookie settings

<https://data.research.cornell.edu/content/best-practices>



Cornell University

[Home](#) [About](#) [Services](#) [Data Management Planning](#) [Best Practices](#)

## RESEARCH DATA MANAGEMENT SERVICE GROUP

Comprehensive Data Management Planning & Services

### Best practices

Best practices documents created by the RDMSG to help you write a data management plan and manage your data.

- [Data citation](#)
- [Data storage and backup](#)
- [File formats](#)
- [File management](#)
- [Glossary of data management terms](#)
- [Guide to writing a Data Management Plan \(DMP\)](#)
- [Guide to writing "readme" style metadata](#)
- [Introduction to intellectual property rights in data management](#)
- [Metadata and describing data](#)
- [Preparing tabular data for description and archiving](#)
- [Sharing and archiving data](#)
- [Support for researchers in the Life Sciences](#)



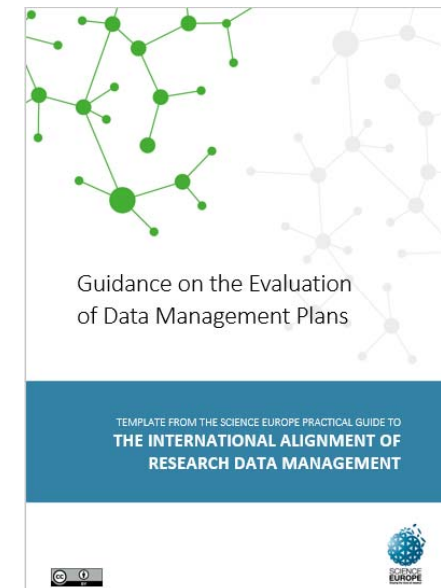
<https://www.scienceeurope.org/our-priorities/research-data/research-data-management/>



<https://www.scienceeurope.org/media/411km040/se-rdm-template-3-researcher-guidance-for-data-management-plans.docx>

<https://www.scienceeurope.org/media/22hpslfl/se-rdm-template-5-guidance-on-the-evaluation-of-data-management-plans.docx>

## Evaluación del RDM



## • Evaluation Rubric for Data Management Plans ¶

DMP-Question¶	DMP-Guidance¶	Performance-Level¶	
<b>Guidance-for-Researchers¶</b>		<b>Sufficiently-Addressed¶</b> The-DMP...¶	<b>Insufficiently-Addressed¶</b> The-DMP...¶
Administrative-information¶	<ul style="list-style-type: none"> <li>•→ Provide information such as name of applicant, project number, funding programme, version of DMP.¶</li> </ul>	<ul style="list-style-type: none"> <li>•→ contains the minimal information required to identify the applicant and the references of the project.¶</li> </ul>	<ul style="list-style-type: none"> <li>•→ provides no or limited information, which makes it hard to identify who is responsible for the project.¶</li> </ul>
<b>1--DATA-DESCRIPTION-AND-COLLECTION-OR-RE-USE-OF-EXISTING-DATA¶</b>			
<b>Guidance-for-Researchers¶</b>		<b>Sufficiently-Addressed¶</b> The-DMP...¶	<b>Insufficiently-Addressed¶</b> The-DMP...¶
<b>1a-How-will-new-data-be-collected-or-produced-and/or-how-will-existing-data-be-re-used?¶</b>	<ul style="list-style-type: none"> <li>•→ Explain which methodologies or software will be used if new data are collected or produced. ¶</li> <li>•→ State any constraints on re-use of existing data if there are any. ¶</li> <li>•→ Explain how data provenance will be documented. ¶</li> <li>•→ Briefly state the reasons if the re-use of any existing data sources has been considered but discarded.¶</li> </ul>	<ul style="list-style-type: none"> <li>•→ gives clear details of where the existing data come from and how new data will be collected or produced. It clearly explains methods and software used. ¶</li> <li>•→ explains, if existing data are re-used, how these data will be accessed and any constraints on their re-use. ¶</li> <li>•→ explains clearly, if applicable, why new data must be collected, rather than re-using existing data.¶</li> </ul>	<ul style="list-style-type: none"> <li>•→ provides little or no details on where the data come from and what data will be collected or re-used. ¶</li> <li>•→ does not, if applicable, provide sufficient rationale for generating new data.¶</li> </ul>
<b>1b-What-data-(for-example-the-kind,-formats,-and-volumes)-will-be-collected-or-produced?¶</b>	<ul style="list-style-type: none"> <li>•→ Give details on the kind of data: for example, numeric (databases, spreadsheets), textual (documents), image, audio, video, and/or mixed-media. ¶</li> <li>•→ Give details on the data format: the way in which the data is encoded for storage, often reflected by the filename extension (for example-</li> </ul>	<ul style="list-style-type: none"> <li>•→ clearly describes or lists what data types will be generated (for example numeric, textual, audio, or video) and their associated data formats, including, if needed, data conversion strategies. ¶</li> <li>•→ explains why certain formats have been chosen and indicates if they are in open and standard format. If a proprietary-</li> </ul>	<ul style="list-style-type: none"> <li>•→ provides no or little details on what data types will be generated and does not provide a valid reason for this omission (for example a statement that no data will be produced or generated). ¶</li> <li>•→ only lists/describes the kinds of data-</li> </ul>

¶

# Data and Digital Objects

▶ Data Policies and Principles

▶ Toolkit [↗](#)

▶ Policy Comparison Tool

▶ Data Management Plan Scorecard [↗](#)

▶ History

## Data Policies and Principles

Recognizing the crucial role of open and effective data and information exchange to the Belmont Challenge, the Belmont Forum adopted open Data Policy and Principles based on the recommendations from the Community Strategy and Implementation Plan (CSIP) at its 2015 annual meeting of Principals in Oslo, Norway. The policy signals a commitment by funders of global environmental change research to increase access to scientific data, a step widely recognized as essential to making informed decisions in the face of rapid changes affecting the Earth's environment.

### Belmont Forum Data Policy and Principles

The Belmont Forum adopts this data policy and the following principles to widen access to data and promote its long-term preservation in global change research; help improve data management and exploitation; coordinate and integrate disparate organizational and technical elements; fill critical global e-infrastructure gaps; share best practices; and foster new data literacy.

Plantilla de para evaluar los DMP

<https://zenodo.org/record/3530933#.YKzHpgHtbt4>

Comparador de políticas

<https://www.belmontforum.org/data/#policyComparison>

## Belmont Forum DMP Scorecard (v.20190819)

Criteria	Complete Response (score = 2)	Incomplete Response (score = 1)	No Response (score = 0)	SCORE
<b>1. What types of datasets and other digital outputs of long-term value do you expect the project will produce or reuse?</b>				
<p>1.1 Plan lists the <u>types</u> of data and other digital outputs of long-term value.</p> <p><i>(e.g. text, databases, images, 3D models, software, audio files, code, video files, reports, surveys, patient records, samples, and so forth)</i></p>	<p>Datasets and other digital outputs of long-term value are identified, including data type and encoding.</p> <p><i>"Environmental data will be delivered as NetCDF (Network Common Data Format) files. Raster files will use the raster2pgsql PostGIS module. Maps and other geographic data will use shapefiles."</i></p> <p><i>"Transcripts and coding will be provided in text files. Audio recording will be MP3 format."</i></p>	<p>Datasets and other digital outputs of long-term value are identified, but lack detail for users beyond the project to understand.</p> <p><i>"A combination of geo-referenced data at various spatial, temporal, and taxonomic scales (e.g., populations, regions, nations, circumpolar, biomes, habitats) will comprise our data of long-term value."</i></p> <p><i>"Long-term value data include data from anthropological field studies: transcripts of interviews and discussion workshops, associated metadata."</i></p>	No information about data types is included.	X
<p>1.2 Plan describes how the data and other digital outputs will be <u>collected, captured, or created</u>.</p> <p><i>(e.g., new observations, results from models, reuse of other data, or other)</i></p>	<p>Clearly defines how data will be collected, captured or created, including methods, instruments, software, or infrastructure where relevant.</p> <p><i>"The MIP compatible model runs to the ISI-MIP servers, where existing Fish-MIP runs are already stored. Scenario outputs will be archived."</i></p> <p><i>"Socio-economic data will include household food security, nutrition, and demographic data. Spatial data produced will include ground-truthed land use/land cover data ~3 km from 50 farms, land use scenario maps for 12 villages and 4 regions. All ecological/social data will be recorded on physical datasheets and entered directly into Excel or STATA."</i></p>	<p>Missing some details regarding how some of the data will be produced; makes assumptions about reviewer knowledge of methods or practices.</p> <p><i>"Models will produce a broad range of output simulation data."</i></p> <p><i>"Data collection includes gathering in-the-field various phytoplankton, zooplankton, fish and flooded forest biodiversity."</i></p>	No information about data collection, capture or creation.	X
1.3	Datasets and other digital outputs volume estimated.	Datasets and other digital outputs amount is vaguely estimated or	Amount of expected data is	X



<https://digital.csic.es/handle/10261/173801>



1. Adoptar los principios <b>FAIR</b>	2. Seleccionar los datos de interés (limpieza de datos)	3. Aplicar los principios <b>FAIR</b> también a los metadatos y al plan de gestión de datos	4. Facilitar, en los informes de evaluación de los proyectos, los beneficios de hacer tus datos <b>FAIR</b>	5. Elaborar un plan de gestión de datos de cómo hacer tus datos <b>FAIR</b>
6. Indicar en el plan de gestión de datos si se reutilizan datos (evitar redundancia)	7. Utilizar estándares interoperables con el ecosistema de datos <b>FAIR</b>	8. Facilitar los datos de investigación de acuerdo con estándares reconocidos	9. Asignar licencias abiertas para propiciar la reutilización	10. Descripción detallada de los ensayos para facilitar su reproducibilidad
11. Identificar el repositorio de adecuado para depositar los datos	12. Verificar los términos de las políticas respecto a los datos de investigación	13. Promover la citación de los <i>datasets</i>	14. Tener en cuenta, los códigos de conducta reconocidos a nivel internacional	15. Contribuir a las buenas prácticas respecto a la gestión de los datos
16. Participar y elaborar programas de formación en gestión de datos	17. Contribuir al desarrollo de la <i>open science</i>	<h2>Recomendaciones para la gestión de datos de investigación</h2>  <p>Red Española sobre Datos de Investigación en Abierto</p>		

# Los datos y las publicaciones



# Panton Principles

Principles for Open Data in Science

## Resumidamente:

1. Términos claros del editor sobre lo que se puede hacer con los datos publicados
2. Utilizar licencias que sean adecuadas para el tratamiento de los datos
3. Evitar licencias que restrinjan limiten el uso comercial o la creación de obras trabajos derivados
4. Se recomienda encarecidamente que los datos generados con proyectos financiados con fondos públicos, sean de dominio público, mediante el uso de licencias al uso

# Opciones para compartir los datos de una publicación (revista). Qué, cuando, dónde

- Adjuntar los datasets como material complementario para su evaluación
- La revista crea un repositorio propio de datos para su depósito al envío del trabajo
- La revista crea un repositorio propio de datos para su depósito después de la aceptación del trabajo
- La revista integra en su workflow el depósito de datasets (p.e., con el plugin dataverse del OJS)
- La revista recomienda el depósito en algún repositorio externo

# Recomendaciones y directrices



- Become a COS Ambassador
- Scientists and Researchers
- Research Institutions
- Journals and Societies
- Software Developers

Help support open science today.

Open Science Badges enhance openness  
a core value of scientific practice

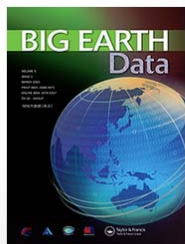


**What are Open Science Badges?**

- Badges to acknowledge open science practices are incentives to preregister.
- Badges signal to the reader that the content has been made available at a persistent location.

**Badges seem silly. Do they work?**

- Yes. Implementing these badges dramatically increases the rates of data sharing.
- A recent systematic review identified this badging program as the most effective at increasing the rates of data sharing.
- View a list of journals and organizations that have adopted badges.



**Big Earth Data**

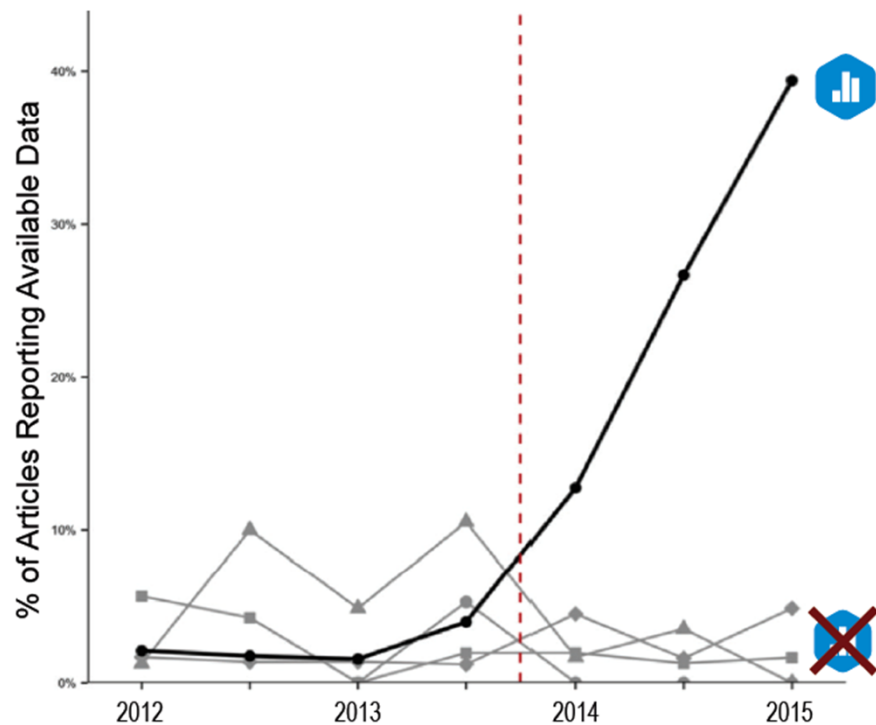
An open access journal

This journal supports Open Science Badges

Publishes research on Big Data in the earth sciences, including earth observation, earth systems monitoring, atmospheric science, marine science and geology.

Enter keywords, authors, DOI, ORCID etc

This Journal   
 Advanced search



# Announcing the journal of the medical library association's data sharing policy

Akers K, Read K, Amos L et al. [See more](#)

*Journal of the Medical Library Association*

DOI: [10.5195/jmla.2019.801](https://doi.org/10.5195/jmla.2019.801)

- Starting October 1, 2019, authors of Original Investigation and Case Report manuscripts are required to deposit the de-identified data associated with their manuscripts in a repository and include a “Data Availability Statement” in their manuscripts describing where and how the data can be accessed. ...
- The *JMLA* defines “data” as the digital materials underlying the results described in the manuscript, including spreadsheets, text files, interview recordings or transcripts, images, videos, output from statistical software, or computer code or scripts.
- Shared data should be appropriately de-identified to prevent revealing the identity of study participants. MLA, the *JMLA*, and individual members of the *JMLA* editorial team are not liable for any harm or damage resulting from the insufficient de-identification of data associate with *JMLA* articles
- When possible, authors are encouraged to apply a license that is at least as permissive as a Creative Commons Attribution (CC BY) license to the data

## Data deposition required for all C19 Rapid Review publishers

London 20 Jan 2021

### Data deposition required for all C19 Rapid Review publishers

The [C19 Rapid Review Initiative](#) – a large-scale collaboration of organisations across the scholarly publishing industry – has agreed to mandate data deposition across the original group of journals that set up the collaboration (eLife, F1000 Research, Hindawi, PeerJ, PLOS, Royal Society, FAIRsharing, Outbreak Science Rapid PREREview, GigaScience, Life Science Alliance, Ubiquity Press, UCL, MIT Press, Cambridge University Press, BMC, RoRi and AfricArXiv). New members aim to align in due course.

COVID Rapid Review Initiative members **must have data shared in a public repository rather than just available on request**. The new common policy is to meet the [TOP Data Transparency Level II](#) that requires that “Data must be posted to a trusted repository. Exceptions must be identified at article submission”. This means mandating data sharing in a public repository rather than just ensuring the authors publish a Data Availability Statement (DAS). Any DAS must now explicitly list the repositories where the data are publicly available (subject to ethical considerations).



# COPDESS SUGGESTED AUTHOR INSTRUCTIONS AND BEST PRACTICES FOR JOURNALS

[HOME](#) / COPDESS SUGGESTED AUTHOR INSTRUCTIONS AND BEST PRACTICES FOR JOURNALS

The Coalition on Publishing Data in the Earth and Space Sciences ([COPDESS](#)) develops and recommends best practices for journal author instructions around data and identifiers as a resource to the community. These best practices are consistent with and based on the COPDESS Statement of Commitment and have been developed with guidance from

- Data Policy Statement (data accesibles en el momento de la publicación, depositados en un repositorio fiable)
  - Data Citation (siguiendo los *open data principles*)
  - Sample Citation and Identification:
  - Crossref Funder Registry
  - ORCIDs
- Identificadores únicos y persistentes



# The Transparency and Openness Promotion (TOP) guidelines

<https://www.cos.io/initiatives/top-guidelines>

<https://osf.io/t2yu5/>

Standard	Level 1	Level 2	Level 3
<b>Data citation</b>	Journal describes citation of data in guidelines to authors with clear rules and examples.	Article requires appropriate citation for data used consistent with the journal's author guidelines.	Article is not published until providing appropriate citation for data following journal's author guidelines.
<b>Data transparency</b>	Articles must state whether or not data are available.	Articles must have publicly available data, or explain why ethical/legal constraints prevent it.	Articles must have publicly available data and must be used to computationally reproduce or confirm results prior to publication.
<b>Analytical code transparency</b>	Articles must state whether or not code is available.	Articles must have publicly available code, or explain why ethical/legal constraints prevent it.	Articles must have publicly available code and must be used to computationally reproduce or confirm results prior to publication.
<b>Materials transparency</b>	Articles must state whether or not materials are available.	Articles must have publicly available materials, or explain why ethical/legal constraints prevent it.	Articles must have publicly available materials and must be used to computationally reproduce or confirm results prior to publication.
<b>Reporting guidelines</b>	Journal articulates design transparency standards.	Journal requires adherence to design transparency standards for review and publication.	Journal requires and enforces adherence to design transparency standards for review and publication.
<b>Study preregistration</b>	Articles will state if work was preregistered.	Article states whether work was preregistered and, if so, journal verifies adherence to preregistered plan.	Journal requires that confirmatory or inferential research must be preregistered.
<b>Analysis plan preregistration</b>	Articles will state if work was preregistered with an analysis plan.	Article states whether work was preregistered with an analysis plan and, if so, journal verifies adherence to preregistered plan.	Journal requires that confirmatory or inferential research must be preregistered with an analysis plan.
<b>Replication</b>	Journal encourages submission of replication studies.	Journal will review replication studies blinded to results.	Registered Reports for replications as a regular submission option.
<b>Publication bias</b>	Journal states that significance or novelty are not criteria for publication decisions.	Journal will review (novel) studies blinded to results.	Journal accepts Registered Reports for novel studies as a regular submission option.
<b>Open science badges</b>	Journal awards 1 or 2 open science badges	Journal awards all 3 open science badges	

**TOP factor.** Mide el grado de cumplimiento con las directrices TOP.

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

Se basa en tres niveles en función de su implementación y especificación: nivel 1, nivel 2 y nivel 3, el nivel 0 corresponde a “se recomienda” o “no se especifica”

TOP Standards										
Search Journal Titles										
Journal ↑	Total	Data Transparency	Analysis Code Transparency	Materials Transparency	Design & Analysis Reporting Guidelines	Study Preregistration	Analysis Plan Preregistration	Replication	Registered Reports & Publication Bias	Open Science Badges
Attention, Perception, and Psychophysics <a href="#">↗</a> Springer Nature	12	1	1	1	1	1	1	3	3	0
Behavioral Development <a href="#">↗</a> American Psychological Association	1	0	0	0	0	0	0	1	0	0
Columbia Law Review <a href="#">↗</a>	0	0	0	0	0	0	0	0	0	0
EMBO Journal <a href="#">↗</a>	4	1	1	1	1	0	0	0	0	0
Journal of Korean Academy of Nursing <a href="#">↗</a>	2	0	0	0	2	0	0	0	0	0
University of Chicago Law Review <a href="#">↗</a>	0	0	0	0	0	0	0	0	0	0
ACM Transactions on Interactive Intelligent Systems <a href="#">↗</a>	0	0	0	0	0	0	0	0	0	0
ADFL Bulletin <a href="#">↗</a>	0	0	0	0	0	0	0	0	0	0
AEA Papers & Proceedings <a href="#">↗</a> American Economics Association	7	3	3	0	0	1	0	0	0	0
AEJ: Applied Economics <a href="#">↗</a> American Economics Association	7	3	3	0	0	1	0	0	0	0
AEJ: Economic Policy <a href="#">↗</a> American Economics Association	7	3	3	0	0	1	0	0	0	0
AEJ: Macroeconomics <a href="#">↗</a> American Economics Association	7	3	3	0	0	1	0	0	0	0
AEJ: Microeconomics <a href="#">↗</a> American Economics Association	7	3	3	0	0	1	0	0	0	0

Publishers

- German Society for Herpetology and Herpetoculture
- AAAS
- AIP Publishing
- Academy of Management

Propuesta de 6 tipos tipo de políticas editoriales sobre los datos de investigación, en función de 14 variables.  
Se presenta lo resultados de políticas de revistas analizadas de Springer Nature, Elsevier, Wiley, PLOS

<https://www.rd-alliance.org/group/data-policy-standardisation-and-implementation-ig/outcomes/developing-research-data-policy>

Hrynaszkiewicz, I., Simons, N., Hussain, A., Grant, R., & Goudie, S. (2020). Developing a Research Data Policy Framework for All Journals and Publishers. *Data Science Journal*, 19(1), 5. <http://doi.org/10.5334/dsj-2020-005>

14 journal research data policy features arranged as 6 policy types (tiers)

	Policy 01	Policy 02	Policy 03	Policy 04	Policy 05	Policy 06
Definition of the research data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Exceptions to policy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Embargoes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Supplementary materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Data repositories	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Data citation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Data licensing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Researcher/ author support	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Data availability statements		<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Data formats and standards				<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Mandatory data sharing (specific data types)				<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Mandatory data sharing (all papers)				<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Peer review of data				<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Data Management Plans (DMPs)				<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Provide information

The text for the policy feature will be included in the policy template but it is clear that the feature will not be enforced and checked as part of the publishing or peer review process

Provide information and action

The text of the policy feature is included and makes clear where applicable that the feature will be checked and enforced in the publishing or peer-review process

# Recomendaciones para la elaboración de una política editorial sobre los datos de investigación después del análisis de 201 revistas indexadas en WOS y/o Scopus en Library and Information Science Journals

Table 2. Recommended journal open data policy elements.

Category	Recommended Policy Elements
Application	<ul style="list-style-type: none"> <li>Describe precisely the types of data to which open data policies apply;</li> <li>Target policies at a clearly defined body of research (e.g., quantitative data, original research, or methods-based requirements).</li> </ul>
Exemptions	<ul style="list-style-type: none"> <li>Identify the circumstances that warrant exemptions as narrowly as possible;</li> <li>Describe valid concerns related to privacy or proprietary data;</li> <li>Require researchers to justify exemptions during the submission process.</li> </ul>
Timing	<ul style="list-style-type: none"> <li>Indicate whether data should be publicly accessible prior to submission, prior to publication, or within a set time period after publication;</li> <li>Indicate if datasets will be considered in the peer-review process.</li> </ul>
Licensing and Access	<ul style="list-style-type: none"> <li>Prescribe specific open licensing terms that authors should apply to datasets;</li> <li>Describe how authors should proceed if repository policies do not accommodate the preferences of the journal;</li> <li>If access to data will be justifiably restricted, require authors to detail any conditions under which they will be made available.</li> </ul>
Formatting and Repositories	<ul style="list-style-type: none"> <li>Encourage authors to use preservation-friendly formats for data, with examples provided based on data type;</li> <li>Identify preferred data repositories;</li> <li>If journals do not specify data repositories, identify required characteristics of eligible repositories, including preservation and persistent linking features.</li> </ul>
Data Availability Statements	<ul style="list-style-type: none"> <li>Require data availability statements for all eligible articles;</li> <li>Identify each element required in statements, such as location of and links to data, full citations, and terms of access;</li> <li>Require a specific justification when data are not available, rather than providing templates.</li> </ul>
Principles	<ul style="list-style-type: none"> <li>State the underlying principles of the open data policy;</li> <li>Clearly outline the potential contributions of open data to the transparency and reproducibility of research, the potential for secondary analysis, and the ethos of research data as a public good.</li> </ul>

Jackson, B. Open Data Policies among Library and Information Science Journals. *Publications* **2021**, 9, 25. <https://doi.org/10.3390/publications9020025>

**Ejemplos....**

## Data Availability <https://reviewer.elifesciences.org/author-guide/journal-policies>

To maintain high standards of research reproducibility, and to promote the reuse of new findings, **eLife requires all datasets associated with an article to be made freely and widely available** (unless there are strong reasons to restrict access, for example in the case of human subjects data), in the most useful formats, and according to the relevant reporting standards.

Wherever possible, **authors should make major datasets available using domain-specific public archives** (for example, [GenBank](#), [Protein Data Bank](#), and [ClinicalTrials.gov](#)), or generic databases (for example, [Dryad](#), [Dataverse](#) or [the Open Science Framework](#)) where a domain specific archive does not exist.

Authors using original data must:

- **make the data available at a trusted digital repository** (however, if all data required to reproduce the reported analyses appears in the article text, tables, and figures then it does not also need to be posted to a repository);
- **include all variables, treatment conditions, and observations described in the manuscript;**
- provide a full account of the procedures used to collect, pre-process, clean, or generate the data;
- provide research materials and description of procedures necessary to conduct an independent replication of the research.

Trusted repositories adhere to policies that make data discoverable, accessible, usable, and preserved for the long term. Trusted repositories also assign unique and persistent identifiers. Author-maintained websites are not compliant with this requirement.

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Methods](#)[Acceptable Data Access  
Restrictions](#)[Unacceptable Data Access  
Restrictions](#)[FAQs](#)[PLOS Data Advisory Board](#)

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- › Reproducibility of research;
- › Efforts to ensure data are archived, increasing the value of the investment made in funding scientific research;
- › Reduction of the burden on authors in preserving and finding old data, and managing data access requests;
- › Citation and linking of research data and their associated articles, enhancing visibility and ensuring recognition for authors, data producers and curators.

Publication is conditional on compliance with this policy. If restrictions on access to data come to light after publication, we reserve the right to post a Correction, an Editorial Expression of Concern, contact the authors' institutions and funders, or, in extreme cases, retract the publication.



*Neuropsychology* (<https://www.apa.org/pubs/journals/neu/index?tab=4>)

### **Data, Materials, and Code**

Authors must state whether data and study materials are available and, if so, where to access them. Recommended repositories include [APA's repository](#) on the Open Science Framework (OSF), or authors can access a full [list of other recommended repositories](#).

In both the Author Note and at the end of the Method section, specify whether and where the data and material will be available or note the legal or ethical reasons for not doing so. For submissions with quantitative or simulation analytic methods, state whether the study analysis code is available, and, if so, where to access it (or the legal or ethical reason why it is not available).

*Journal of Animal ecology* <https://besjournals.onlinelibrary.wiley.com/hub/journal/13652656/author-guidelines>

### **Data Availability Statement**

To enable readers to locate archived data from papers, we require that authors list the database and the respective accession numbers or DOIs for all data from the manuscript that has been made publicly available. For example, “Data available from the Dryad Digital Repository <http://dx.doi.org/10.5061/dryad.41qh7> (Kiere & Drummond 2016).” When a DOI is available for the data, the full data citation should also be given in the reference list.

## Supporting Data

All data on which the conclusions given in the publication are based should be available to readers, either in our *GigaDB* repository, or in community established repository where available and appropriate (for examples see below). *GigaScience* fully supports the recommendations of the National Academies regarding data sharing (see [Board on Life Sciences, Sharing Publication-Related Data and Materials: Responsibilities of Authorship in the Life Sciences](#)).

Authors using unpublished genomic data are expected to abide by the guidelines of the [Fort Lauderdale](#) and [Toronto](#) agreements. Based on broadly accepted scientific community standards, the key requirement of third parties using genomic data is to contact the owners of unpublished data (i.e. the principal investigator and sequencing center) prior to undertaking their research, to advise them about their planned analyses.

Should the manuscript be approved for publication, the accompanying datasets must be accessible by any researcher wishing to use them under a [Creative Commons CC0](#) waiver, without restrictions, such as the need for a material transfer agreement. Exceptions to the use of a Creative Commons CC0 waiver for data are made for data that has specific legal restrictions for open sharing, but these must be submitted to a persistent, but restricted database for other researchers to submit a request for use form.

*Scientific Data* (<https://www.nature.com/sdata/policies/data-policies>)

## **Data Policies**

Data Descriptors, *Scientific Data's* primary article type, describe scientifically valuable datasets. These datasets must be made available to editors and referees at the time of submission, and must be shared with the scientific community as a condition of publication. Here, we provide information on the types of data that should be archived, guidance for authors on selecting a suitable repository for their data, and how to archive sensitive data. *Scientific Data's* data policies are compatible with the standardised [research data policies set out by Springer Nature](#), and the requirements of the [Data Policy Standardisation and Implementation Interest Group of the Research Data Alliance](#).

Please read on for our data deposition policies, and please contact us if you would like additional advice on how best to meet these requirements for your own data.

[Selecting a repository](#)

[At initial submission](#)

[At publication](#)

[Human Data](#)

[Challenging data-types](#)

[Data preservation](#)

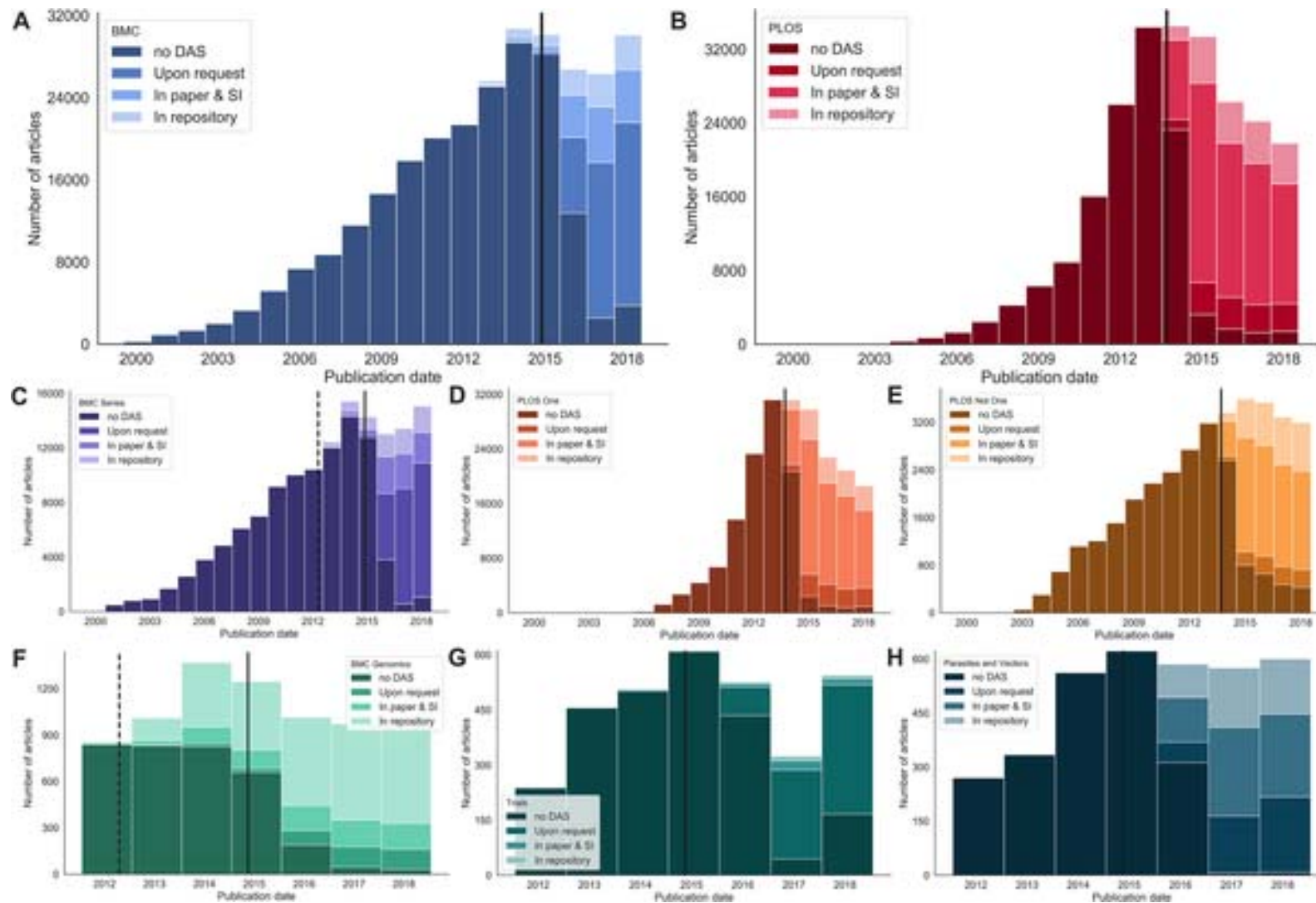
[Dataset updates](#)

[Data repository criteria](#)

[Data citation](#)

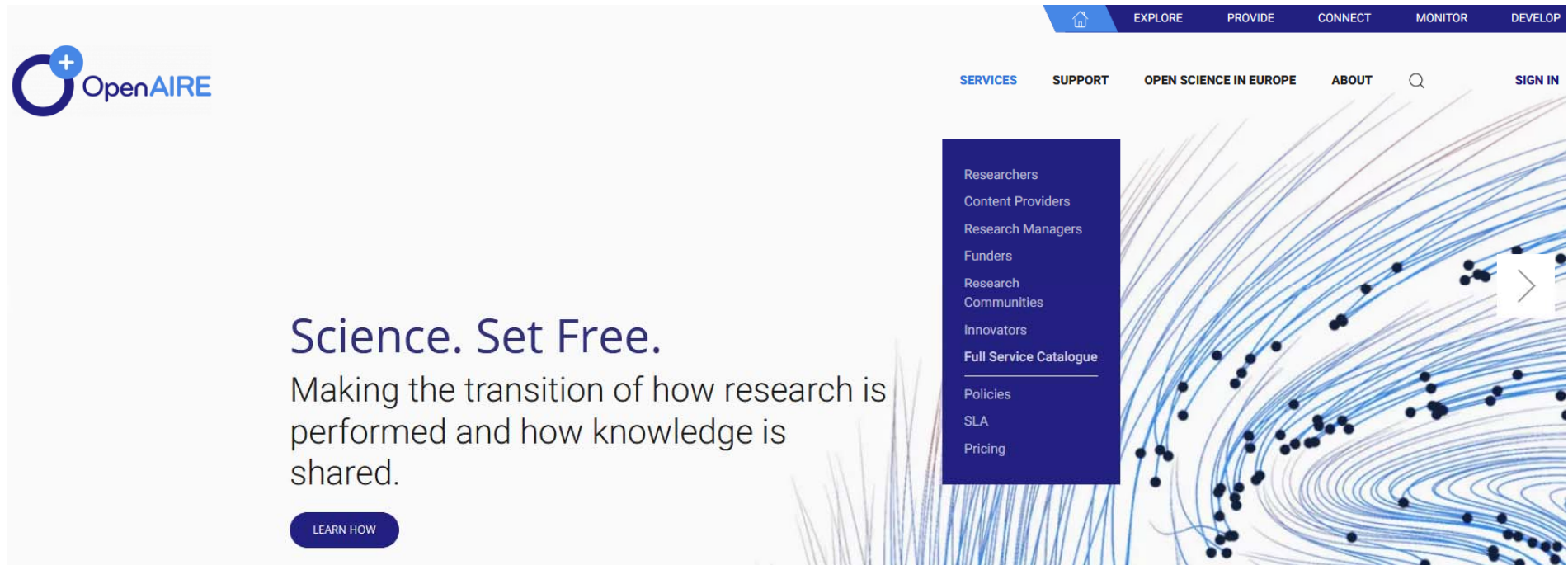
[Data management plans](#)

## Efecto de la implementación de una política editorial sobre los datos de investigación subyacentes a las publicaciones. Caso de revistas de BMC y PLoS



Colavizza G, Hrynaszkiewicz I, Staden I, Whitaker K, McGillivray B (2020) The citation advantage of linking publications to research data. PLOS ONE 15(4): e0230416. <https://doi.org/10.1371/journal.pone.0230416>  
<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0230416>

# Servicios OpenAire



The image shows a screenshot of the OpenAire website. On the left, the OpenAire logo is displayed. The main text reads "Science. Set Free." followed by "Making the transition of how research is performed and how knowledge is shared." and a "LEARN HOW" button. On the right, a navigation menu is open, showing a list of services: Researchers, Content Providers, Research Managers, Funders, Research Communities, Innovators, Full Service Catalogue (highlighted), Policies, SLA, and Pricing. The background features a stylized graphic of blue lines and dots.

**OpenAIRE**

## Science. Set Free.

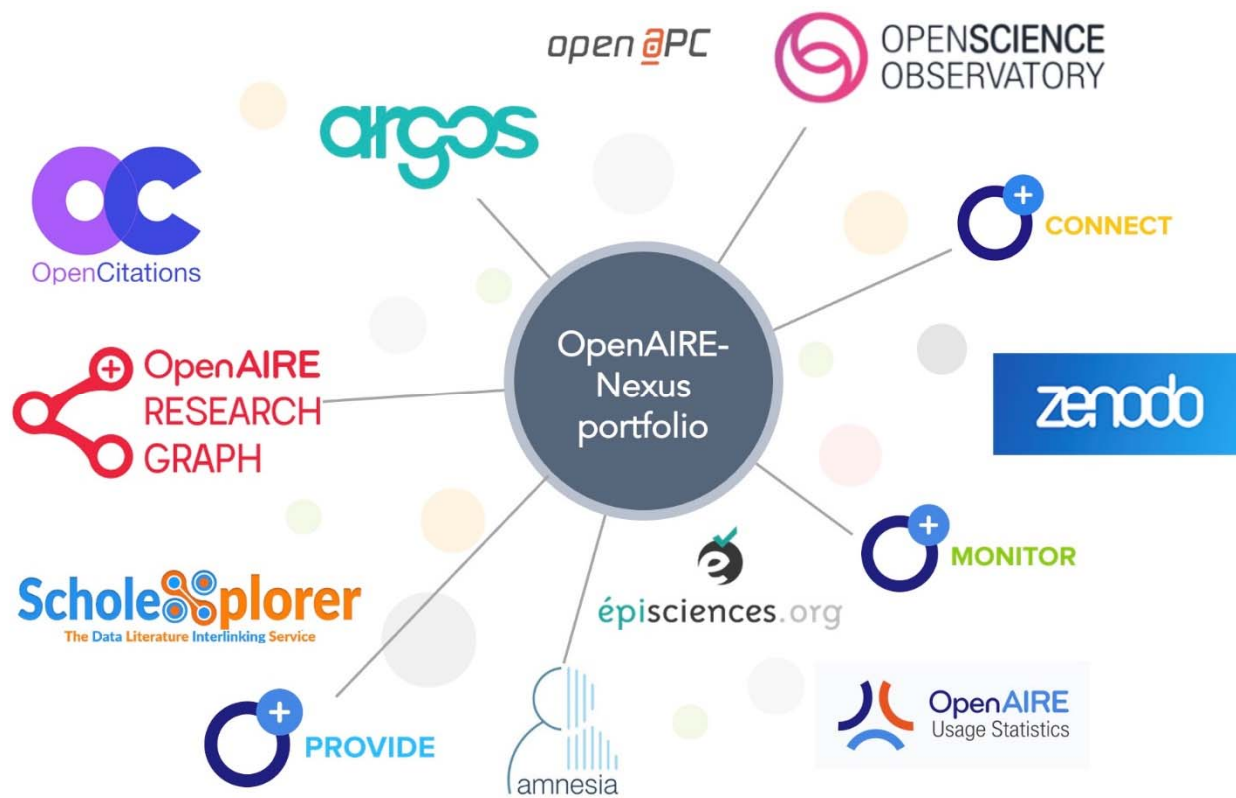
Making the transition of how research is performed and how knowledge is shared.

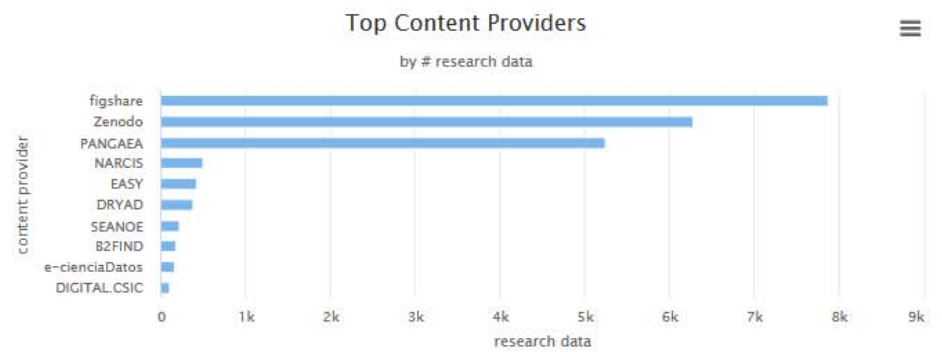
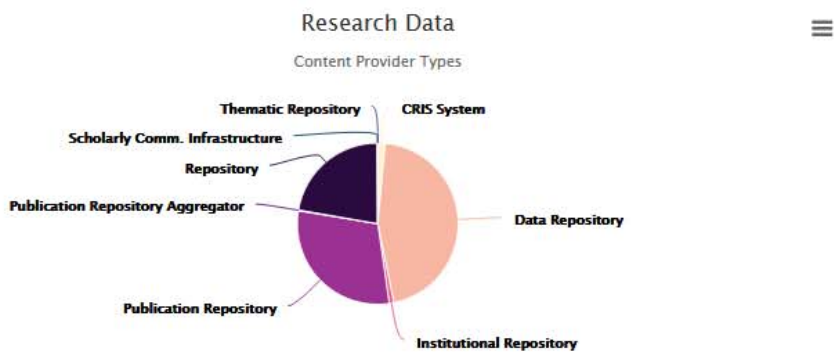
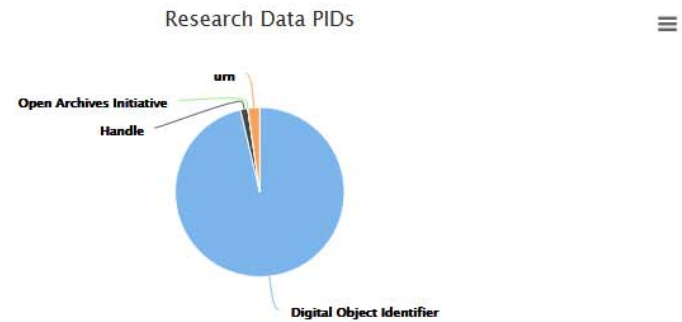
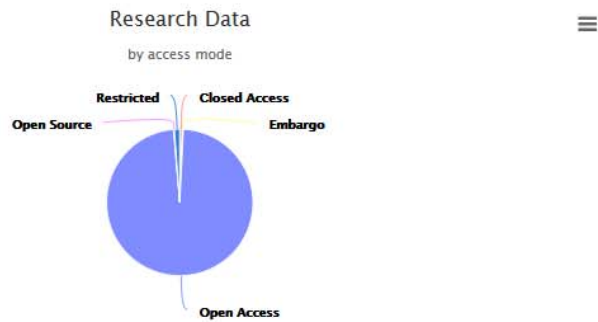
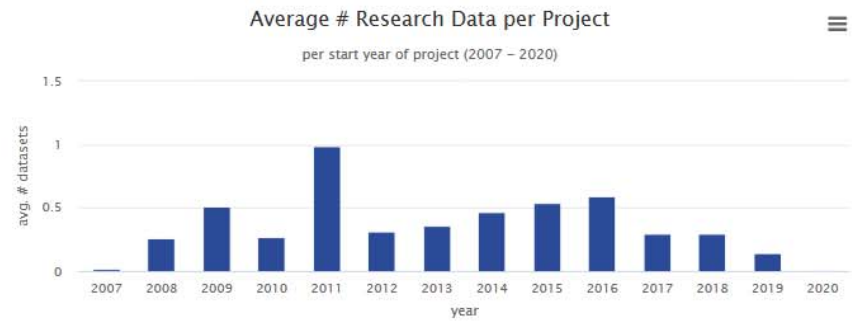
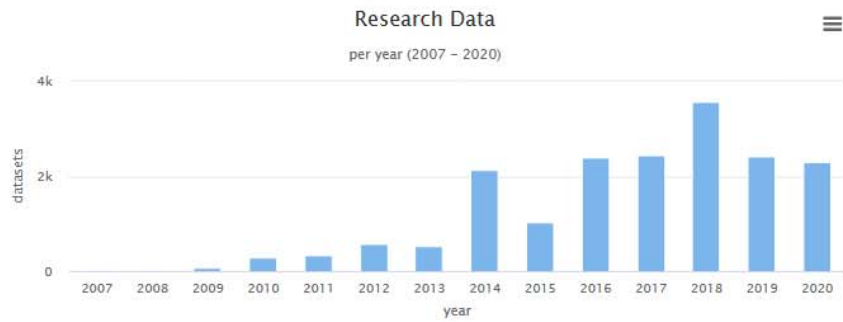
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