



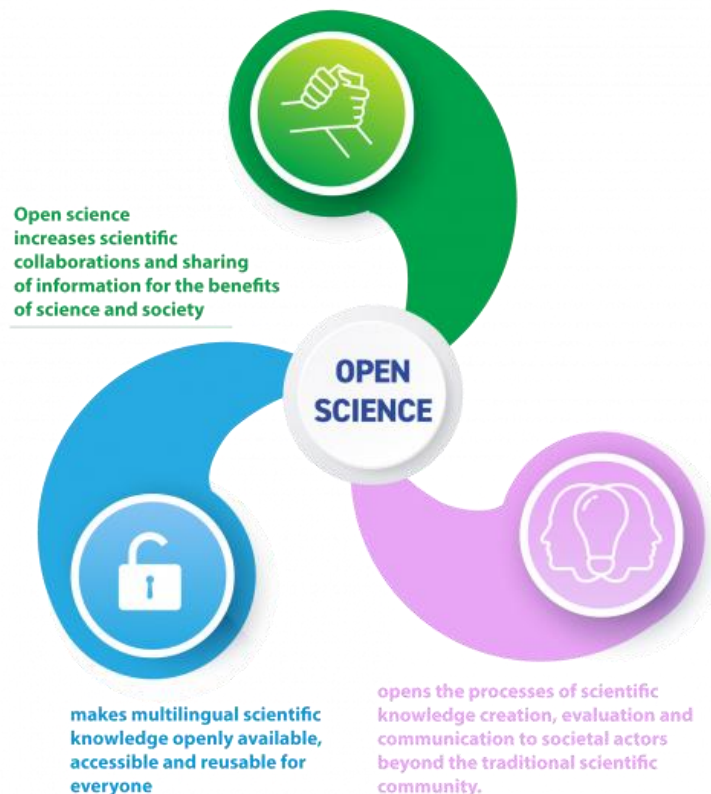
Open Science: From Open Access to Open Research Data. A case study from UAM Library

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*Welcome,
we are open!*



What is Open Science?



- “Open Science is a system change allowing for better science through open and collaborative ways of producing and sharing knowledge and data, as early as possible in the research process, and for communicating and sharing results.

- This new approach affects research institutions and science practices by bringing about new ways of funding, evaluating and rewarding researchers.

- Open Science increases the quality and impact of science by fostering reproducibility and interdisciplinarity. It makes science more efficient through better sharing of resources, more reliable through better verification and more responsive to society’s needs”

([UNESCO Recommendation on Open Science](#), 2021)

(European Commission, [Open Science](#), 2019)

Since 2016, the Commission organises its open science policy according to eight ‘ambitions’: Let’s focus on:

European Open Science Cloud

(EOSC) a ‘federated ecosystem of research data infrastructures’ will allow the scientific community to share and process publicly funded research results and data across borders and scientific domains.



Open Data

FAIR (Findable, Accessible, Interoperable and Re-usable data) and open data sharing should become the default for the results of EU-funded scientific research.

Future of scholarly communication

all peer-reviewed scientific publications should be freely accessible, and the early sharing of different kinds of research outputs should be encouraged

(European Commission, [Open Science](#), 2019)

EOSC

The European Open Science Cloud is an environment for hosting and processing research data to support EU science

The EOSC enables a step change across scientific communities and research infrastructures towards:

FAIR (Findability, Accessibility, Interoperability and Reusability) management

Reliable Reuse of research data and all other digital objects produced along the research life cycle (e.g. methods, software and publications)



([EOSC](#), 2022)

What is Open Research?

01 Embodies ideas of best research practice by opening access to results, data, protocols and other aspects of the research process.

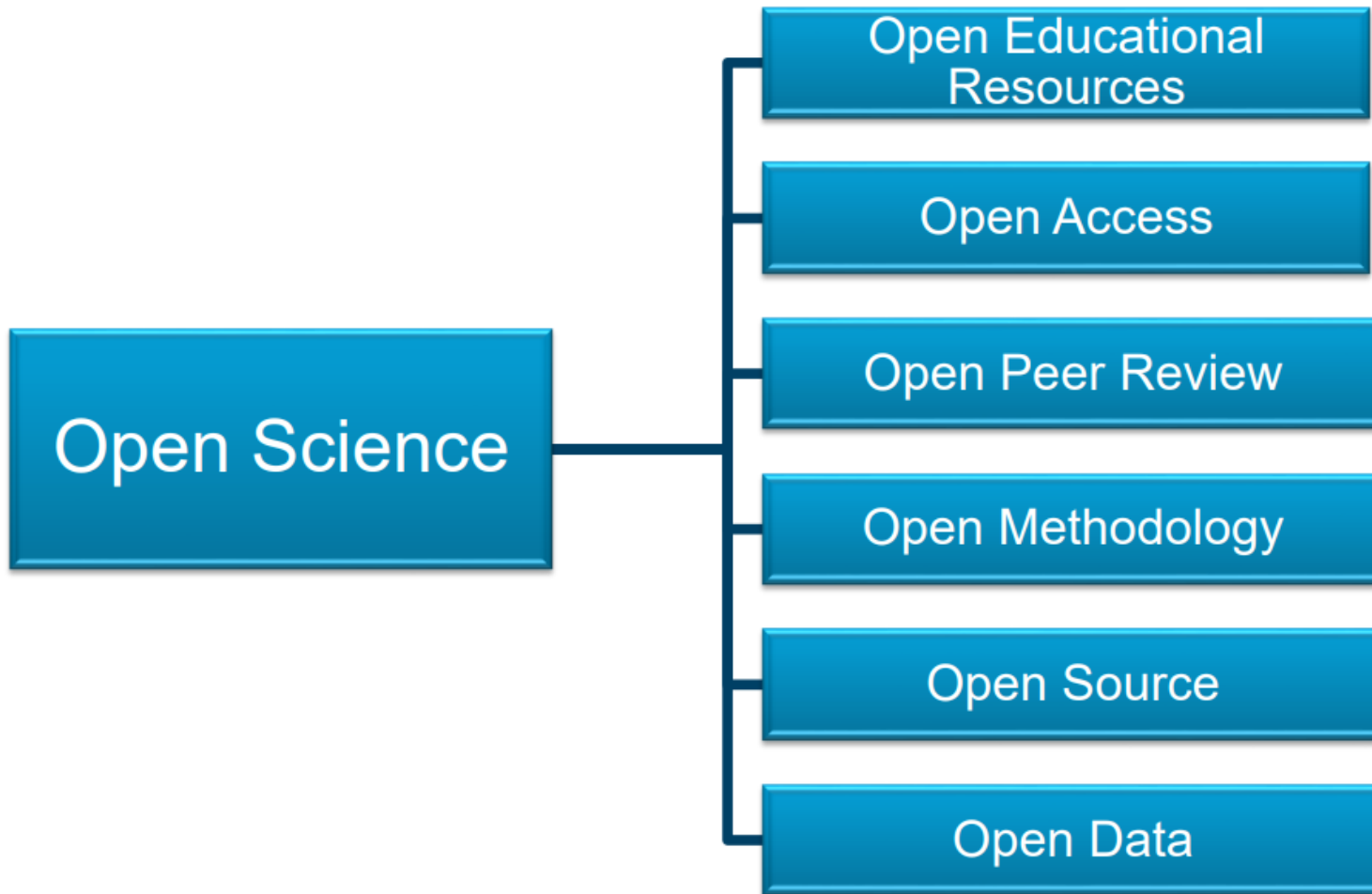
02 Is an interchangeable term with 'Open Science'.

03 Reproducibility of research findings

It also includes:



([University of Cambridge. Open Research](#))

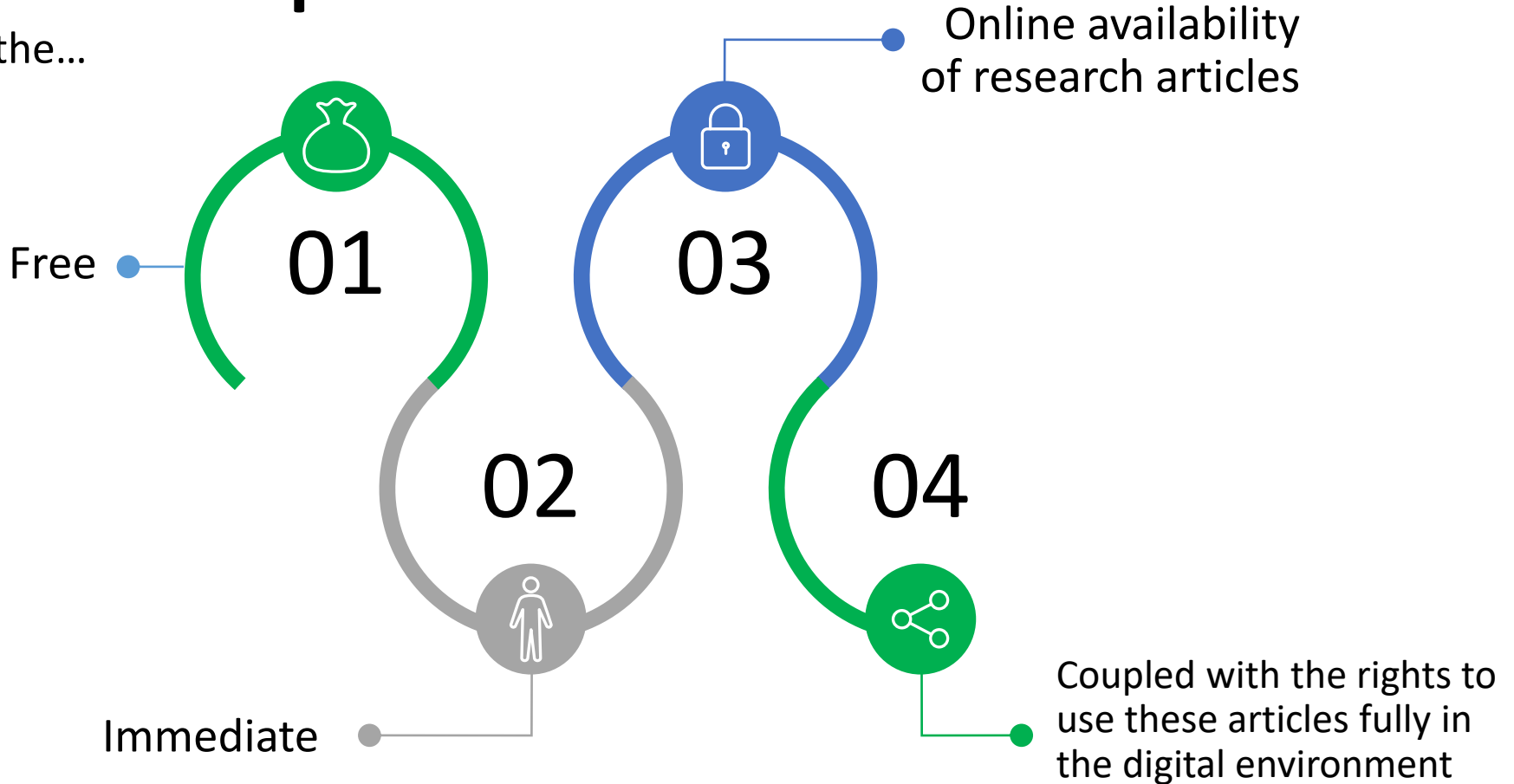


Andreas Neuhol

https://commons.wikimedia.org/wiki/File:Open_Science_-_Prinzipien.png

What is Open Access?

Is the...



[\(SPARC. Open Access\)](#)

The CIVIS universities support the Open Access Transformation in scholarly communication. In doing so, they are involved in the various forms of Open Access: open access publications, institutional repositories, open-source software, open publishing platforms. They also support efforts to preserve all the actors of the publishing value chain, according to the principle of *bibliodiversity* developed in the [Jussieu Call](#).

All publications produced in the context of the CIVIS project should be available in Open Access, in compliance with the national legislation concerning intellectual property rights (IPR).

([CIVIS. Open Science statement, 2021](#))

OPEN ACCESS Libre ≠ Gratis

“Information is free of charge to access but subject to the limits of fair dealing”.

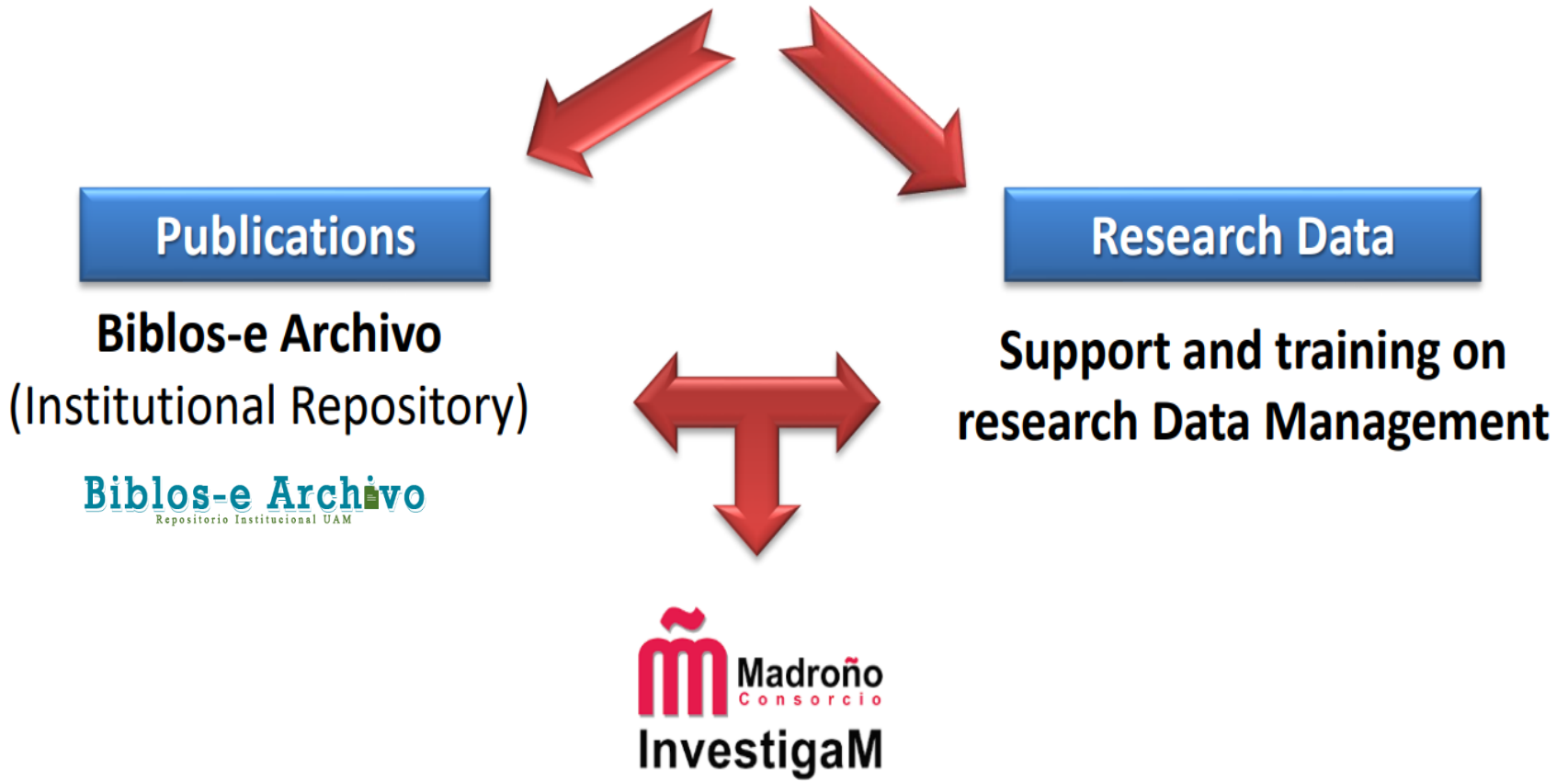
Gratis **VS** Libre

“is both free of charge and free of at least some legal and licensing restrictions”.

[\(Ball, D. “Facilitate Open Science Training for European Research”, 2016\)](#)

The UAM Library is committed to Open Science

Open Access to:



Biblos-e Archivo

Repositorio Institucional UAM

Is the full text **Institutional Repository** of research published by members of the Universidad Autónoma de Madrid.

But it also contains institutional and ancient documents, a digital humanities project, conference proceedings held in the University and journals published by the University (until 2020).

- Software:

2007 – Digitool

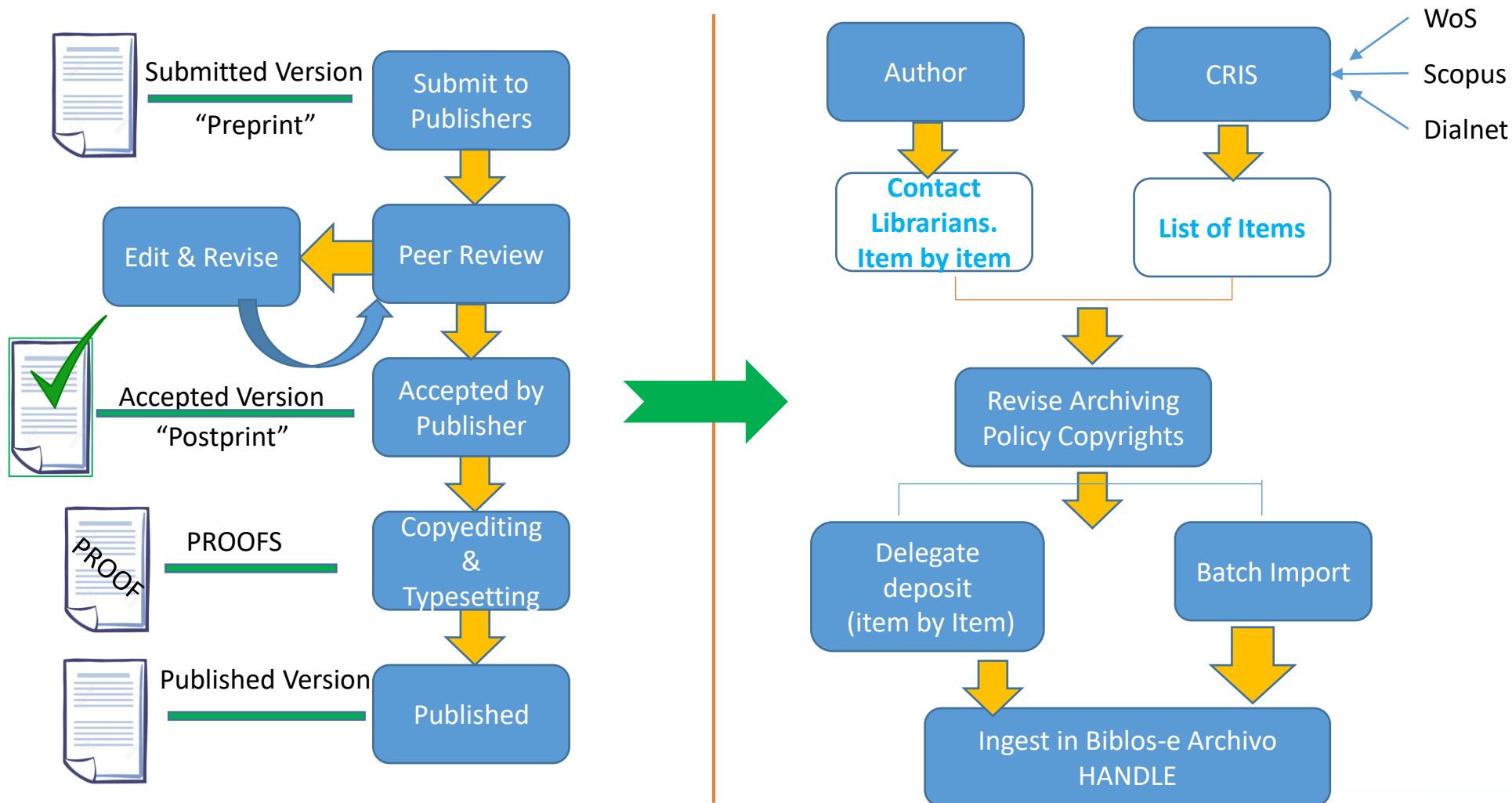
2014 – Dspace

- OAI-PMH & OpenAIRE 4 compliant
- Authority control (May 2022) **NEW**

The Repository in figures (15/05/2022):

Doctoral Thesis	16344
Articles	19546
Bachelor Thesis	2085
MasterThesis	553
Total Items	48289

Biblos-e Archivo workflow:



What is Open Data?

“Open knowledge’ is any content, information or data that people are free to use, re-use and redistribute — without any legal, technological or social restriction”

“ Open knowledge is what open data becomes when it’s useful, usable and used.”

[\(Open Knowledge Foundation\)](#)

“Open data and content can be freely used, modified and shared by anyone for any purpose”

[\(Open Knowledge Foundation. Open Definition\)](#)



Research data

means documents in a digital form, other than scientific publications, which are collected or produced in the course of scientific research activities and used as evidence in the research process, or commonly accepted in the research community as necessary to validate research findings and results.

([EU. Directive on open data and the re-use of public sector information](#), 2019)

What is Research Data Management?

“Research Data Management (or RDM) is a term that describes the [organization](#), [storage](#), [preservation](#), and [sharing of data collected and used](#) in a research project.

It involves the everyday management of research data during the lifetime of a research project (for example, using consistent file naming conventions). It also involves decisions about how data will be preserved and shared after the project is completed (for example, depositing the data in a repository for long-term archiving and access).”

([University of Pittsburgh. Library System](#))

Finding and reusing

Managing data

Working with data...

We can help you...

Publishing & Sharing

Write a Data Management Plan

Create effective documentation and metadata to make data reusable

Comply with privacy & ethical requirements

Find repositories suitable for the data

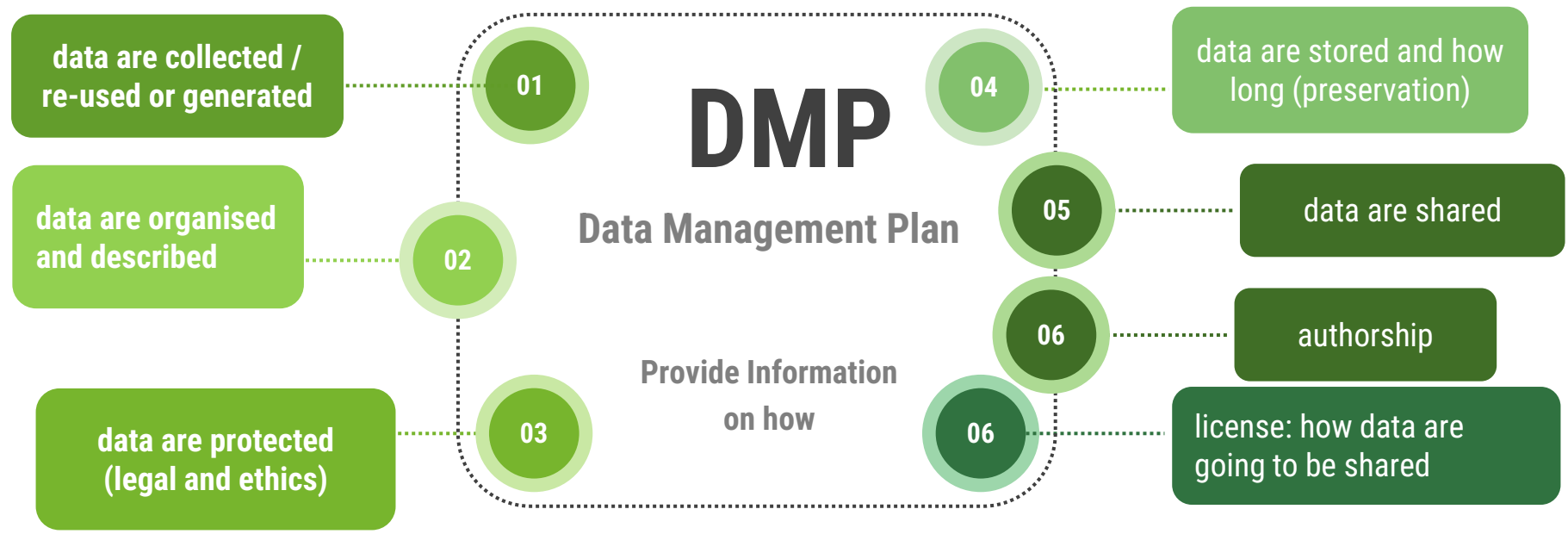
Promote and deposit data in e-cienciaDatos

Describe data

License data for reuse and make them citable

Comply with sharing requirements from funders or publishers

Promote data



The software to create DMPs is PGDonline

PGDonline Inicio PGD Públicos Plantillas PGD Ayuda Idioma

Bienvenido a PGDonline

PGDonline ha sido desarrollado por el **Consortio Madroño** como una herramienta para elaborar planes de gestión de datos.

Comenzando:

- Consortio Madroño
- INVESTIGAM - Portal de Ciencia Abierta del Consortio Madroño
- INVESTIGAM: PAGODA
- INVESTIGAM — PAGODA: CREAR SU PGD
- DCC Checklist for a Data Management Plan

Iniciar sesión Registrarse

* Correo electrónico

* Clave

¿Olvidó su clave?

Recordar correo

Iniciar sesión

and it's based on DMPonline (DCC)

DMPONLINE Home Public DMPs Funder requirements Help Language

Plan to make data work for you

Data Management Plans that meet institutional funder requirements.

DMPonline helps you to create, review, and share data management plans that meet institutional and funder requirements. It is provided by the Digital Curation Centre (DCC).

Sign in Create account

* Email

* Password

Forgot password?

Remember email

Sign in


- or -


Sign in with your institutional credentials


Documentation: Readme files (readme.txt) Templates in Spanish and English


We help you make your data FAIR

FAIR: Findable, Accesible, Interoperable and Reusable


Findable


Accesible


Interoperable


Reusable

Metadata

User's
Licenses

DOI

Readme.txt

- ➔ You will meet the data release requirements of H2020 and Horizon Europe.
- ➔ Compatible with the data publication policies of the main publishers.
- ➔ Your data can be found through Google Dataset Search, Dataverse, etc.

```

readme-es.txt: Bloc de notas
Archivo Edición Formato Ver Ayuda
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
  
```

```

readme-en.txt: Bloc de notas
Archivo Edición Formato Ver Ayuda
e-cienciaDatos: "readme" form

-----
GENERAL INFORMATION
-----
1. Title of dataset

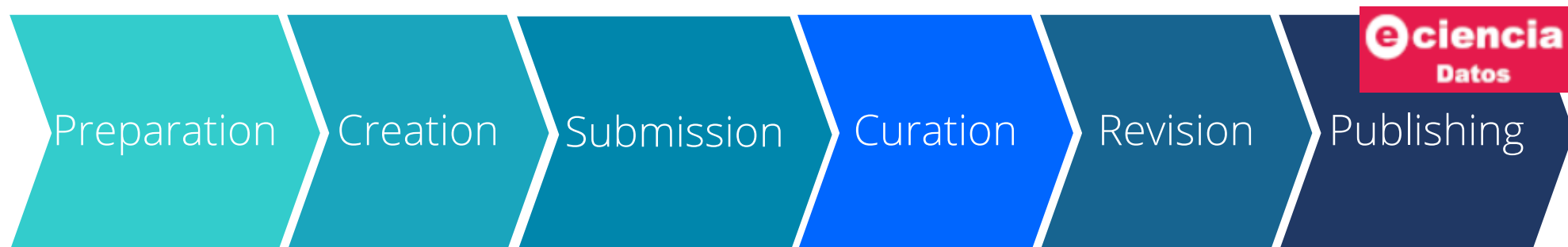
2. Contact
   Principal Investigator Contact Information
   Name:
   Institution:
   Email:
   ORCID:

3. Description of the project

4. Description of the dataset
  
```

Working with data: deposit in [e-cienciaDatos](#)

- Add metadata
- Submit data files
- Metadata quality control
- File format and readme check
- License control
- DOI



- Interview with researchers
- Write readme file (Spanish or English)
- Formatting files

- Allow a few days for the data curation process

- Create a private url
- Check metadata
- Re-submit

The Consorcio Madroño and its commitment to Open Science: From Open Access to Open Data

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C. Madroño WG Open Science



Pérez Aliende, María Luisa. The Consorcio Madroño and its commitment to Open Science: From Open Access to Open Data. This poster was presented at the CERN Workshop on Innovations in Scholarly Communication (OAI11), 19-21 June 2019, University of Geneva.

<http://hdl.handle.net/10486/687901>

@ <https://www.consorciofadrono.es/investigam/>

The research portal meant to disseminate the results of research activities: scientific publications and research data

ACCESS TO



2007

Service provider

Which harvests the institutional repositories within the member universities context, plus CSIC, IEO and UCM.

Open access → scientific publications generated by researchers in the Community of Madrid.

(>450.000 items)



2018

(stable version)

Consortium Data Repository

based on Dataverse software.

Each member university has its own Dataverse, and among the functionalities offered we can highlight: version control, provision of digital object identifiers (DOI), OpenAIRE compatibility, harvest by the Harvard Dataverse Network.

Ballpoint → FAIR data



SUPPORT



Pagoda

2015

A Website to support researchers with RDM and consultation service at each of the member libraries

Focus → data management planning and how to create a DMP.



TOOL



PGDonline

Software to create DMPs, based on DMPonline (DCC).

HORIZON EUROPE

Providing **open access to peer-reviewed publications** is mandatory in Horizon Europe, when peer-reviewed publications are produced.

Open access to generated research data is required under the premise:
‘as open as possible as closed as necessary’

Data management plans are mandatory for all projects generating or reusing data and should be aligned with the D&E plan (Dissemination and Exploitation (D&E))

Additionally, we recommend that you provide open access to research outputs beyond publications and data (e.g. software tools, models, apps, etc) and share them as early and openly as possible providing guidance for potentially interested users. Costs for providing open access to publications and data are eligible and should be budgeted in the proposal.

[\(Horizon Europe \(HORIZON\): Programme guide, April 2022\)](#)

Thank you!
Grazie!