

Alicia Fátima Gómez Sánchez, PhD

INTRODUCTION TO PERSISTENT IDENTIFIERS: THE MEANING OF DIGITAL OBJECT IDENTIFIERS (DOIs)

FAIR Data Austria Webinar:

An Exploration of Persistent Identifiers: Use, Value and Future.

April 27, 2022

WHAT ARE PERSISTENT IDENTIFIERS (PIDs)

REMINDING THE FAIR PRINCIPLES



Source : Australian National Data Service (ANDS)

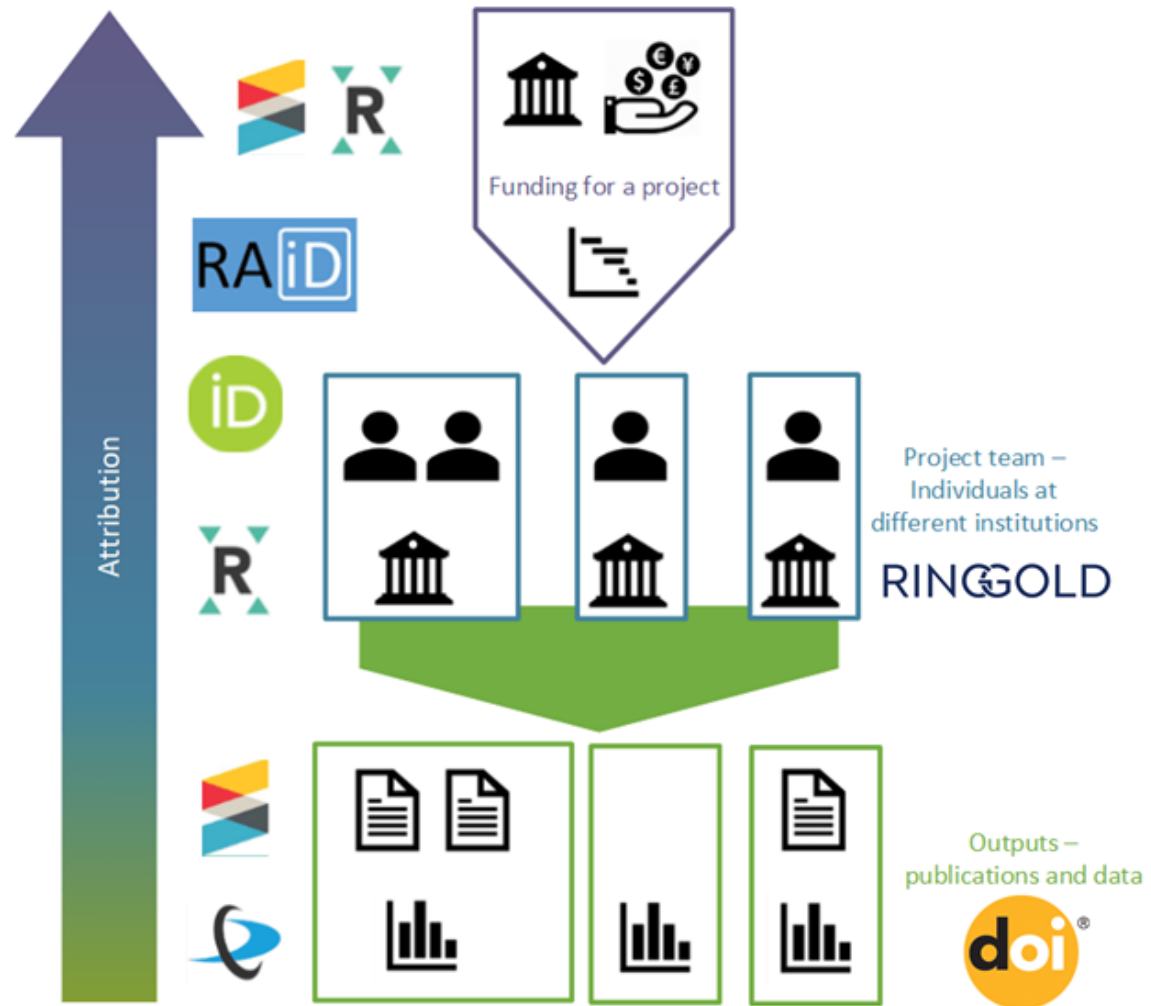
WHAT IS A PERSISTENT IDENTIFIER (PID)

- **PIDs** are permanent unique long-lasting references to a digital object (document, file, website ...), person, institution, funder, etc.



PIDs LANDSCAPE

- PIDs make it easier to link and retrieve publications and research results and to link authors with their works.

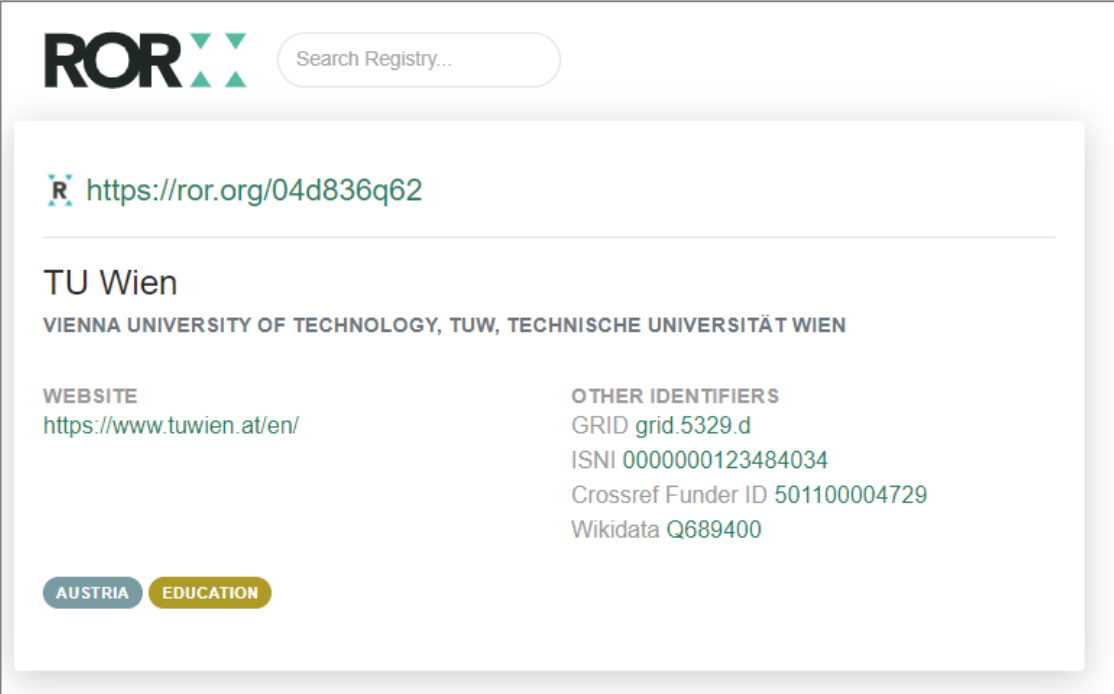


BENEFIT OF PIDS

- Help to interconnect a network of specifically identified objects.
- Make it easier to **link and retrieve research results** and to **link authors, institutions and more** with their works.
- Allow direct access to the information associated to digital objects (e.g. DOIs), people (e.g. ORCID iDs), institutions (ROR, Ringgold, etc.)
- **Are essential to make data FAIR**

RESEARCH ORGANIZATION REGISTRY (ROR)

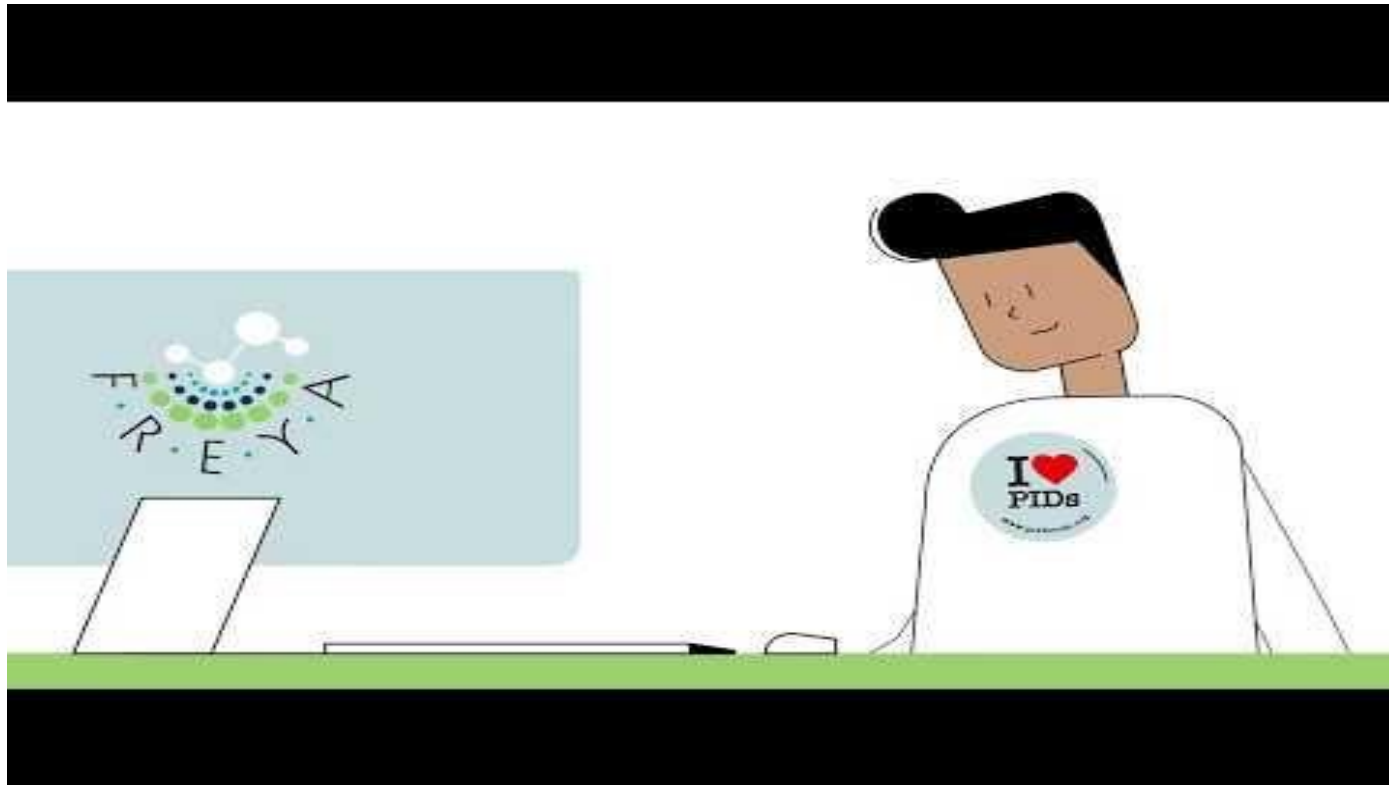
ROR is a community-led project to develop an open, sustainable, usable, and unique identifier for every research organization in the world.



The screenshot shows the ROR registry interface. At the top left is the ROR logo, followed by a search bar labeled "Search Registry...". Below this is a search result for the URL <https://ror.org/04d836q62>. The main content area displays the name "TU Wien" and its full name "VIENNA UNIVERSITY OF TECHNOLOGY, TUW, TECHNISCHE UNIVERSITÄT WIEN". Underneath, there are two columns of information: "WEBSITE" with the URL <https://www.tuwien.at/en/>, and "OTHER IDENTIFIERS" which includes "GRID grid.5329.d", "ISNI 0000000123484034", "Crossref Funder ID 501100004729", and "Wikidata Q689400". At the bottom of the card, there are two tags: "AUSTRIA" and "EDUCATION".

<https://ror.org/>

THE POWER OF PERSISTENT IDENTIFIERS

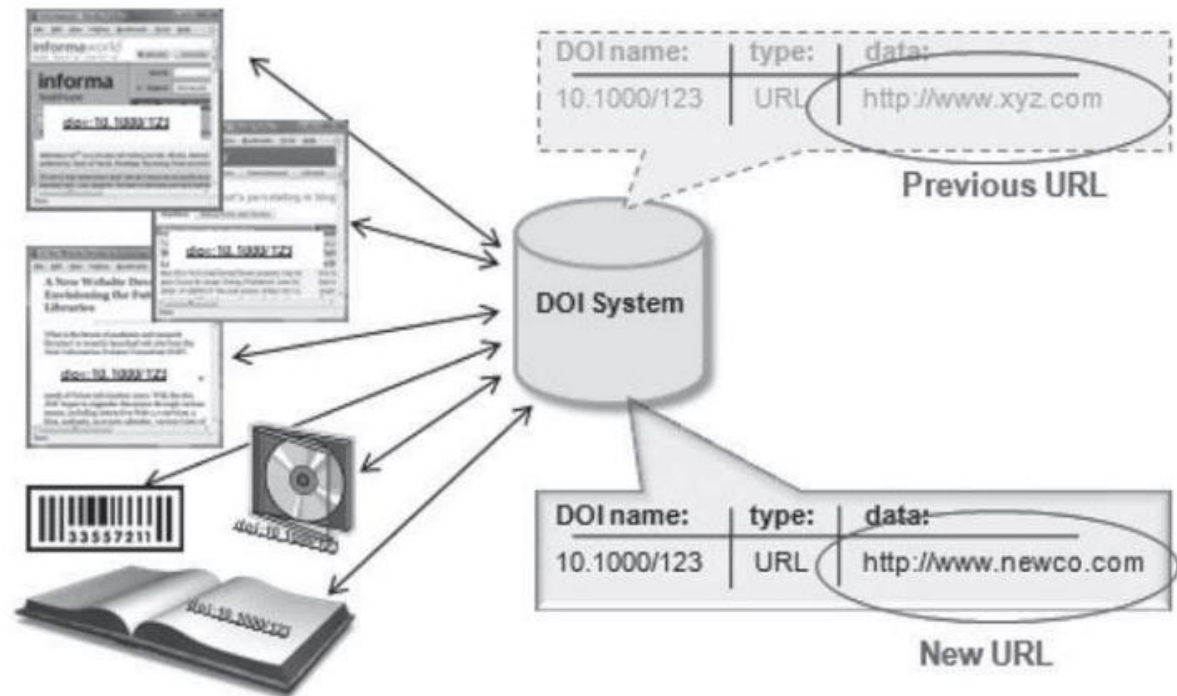


<https://www.youtube.com/watch?v=9G4EMJCwCw4&feature=youtu.be>

WHAT IS A DOI

WHAT IS A DOI

- A Digital Object Identifier (DOI) is a unique and permanent digital identifier for an electronic object.

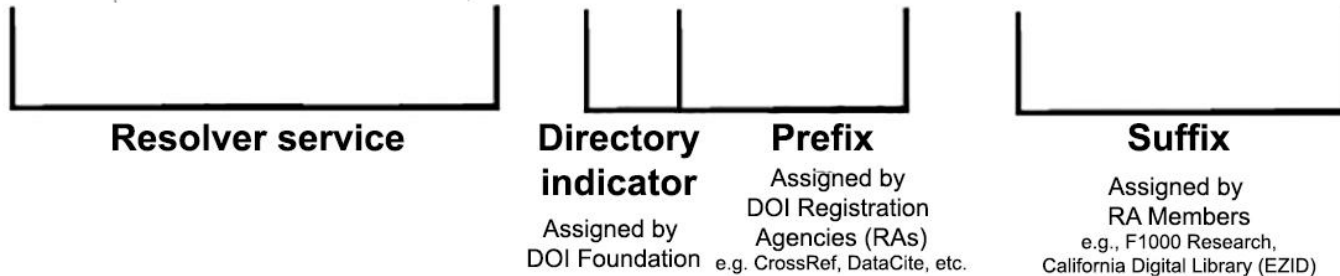


Paskin, N. (2015). Digital Object Identifier (DOI®) System. In M. J. Bates & M. Niles Maack (Eds.). *Encyclopedia of Library and Information Sciences* (3rd ed.). CRS Press. <https://doi.org/10.1081/E-ELIS3>

STRUCTURE OF A DOI

Anatomy of a Digital Object Identifier (DOI)

https://doi.org/ 10.7935 / K5H41PBP



[Adapted from Australian National Data Service (ANDS)
Digital Object Identifier System and DOI Names (DOIs) Guide,
<http://www.ands.org.au/guides/doi>]

THE EXTRA INFORMATION IN A DOI

<https://doi.org/10.1088/1538-3873/ab019f>

Publications of the Astronomical Society of the Pacific

PAPER

SOWAT: Speckle Observations with Alleviated Turbulence

F. Bosco^{1,3}, J.-U. Pott¹, and R. Schödel²

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Publications of the Astronomical Society of the Pacific, Volume 131, Number 998

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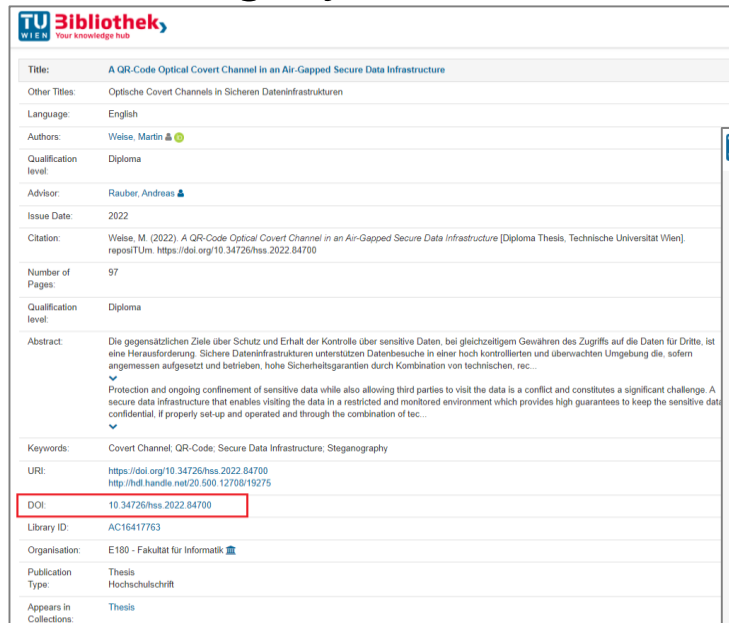
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Abstract

1. Introduction
2. Simulations
3. Wavefront Decorrelation in the Simulated Atmosphere
4. Signal-to-noise Ratio in the Simulated Data
5. Holographic Image Reconstruction of the Synthetic Observations
6. Comparing Speckle Holography with SSA on VLT/HAWK-I Data with GLAO Correction
7. Summary and Conclusions

HOW TO GET A DOI

- Through journals publishers
- Through public or subject repositories (Zenodo, Pangea...)
- Through your local DOI-Service (i.e. at the TU Wien)



TU Bibliothek
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Title: A QR-Code Optical Covert Channel in an Air-Gapped Secure Data Infrastructure

Other Titles: Optische Covert Channels in Sicheren Dateninfrastrukturen

Language: English

Authors: Weise, Martin

Qualification level: Diploma

Advisor: Rauber, Andreas

Issue Date: 2022

Citation: Weise, M. (2022). A QR-Code Optical Covert Channel in an Air-Gapped Secure Data Infrastructure [Diploma Thesis, Technische Universität Wien] reposiTUm. <https://doi.org/10.34726/has.2022.84700>

Number of Pages: 97

Qualification level: Diploma

Abstract: Die gegensätzlichen Ziele über Schutz und Erhalt der Kontrolle über sensitive Daten, bei gleichzeitigem Gewähren des Zugriffs auf die Daten für Dritte, ist eine Herausforderung. Sichere Dateninfrastrukturen unterstützen Datenbesuche in einer hoch kontrollierten und überwachten Umgebung die, sofern angemessen aufgesetzt und betrieben, hohe Sicherheitsgarantien durch Kombination von technischen, rec...
Protection and ongoing confinement of sensitive data while also allowing third parties to visit the data is a conflict and constitutes a significant challenge. A secure data infrastructure that enables visiting the data in a restricted and monitored environment which provides high guarantees to keep the sensitive data confidential, if properly set-up and operated and through the combination of tec...

Keywords: Covert Channel, QR-Code, Secure Data Infrastructure, Steganography

URI: <https://doi.org/10.34726/has.2022.84700>
<http://hdl.handle.net/20.500.12708/19275>

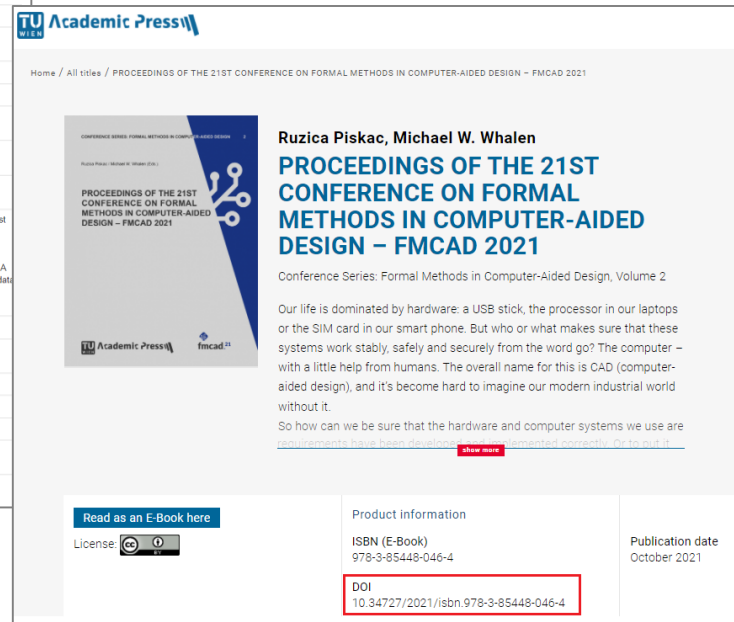
DOI: [10.34726/has.2022.84700](https://doi.org/10.34726/has.2022.84700)

Library ID: AC16417763

Organisation: E180 - Fakultät für Informatik

Publication Type: Thesis
Hochschulschrift

Appears in Collections: Thesis



TU Academic Press
W I E N

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Ruzica Piskac, Michael W. Whalen
PROCEEDINGS OF THE 21ST CONFERENCE ON FORMAL METHODS IN COMPUTER-AIDED DESIGN – FMCAD 2021

Conference Series: Formal Methods in Computer-Aided Design, Volume 2

Our life is dominated by hardware: a USB stick, the processor in our laptops or the SIM card in our smart phone. But who or what makes sure that these systems work stably, safely and securely from the word go? The computer – with a little help from humans. The overall name for this is CAD (computer-aided design), and it's become hard to imagine our modern industrial world without it.
So how can we be sure that the hardware and computer systems we use are requirements have been developed and implemented correctly. Or to put it...

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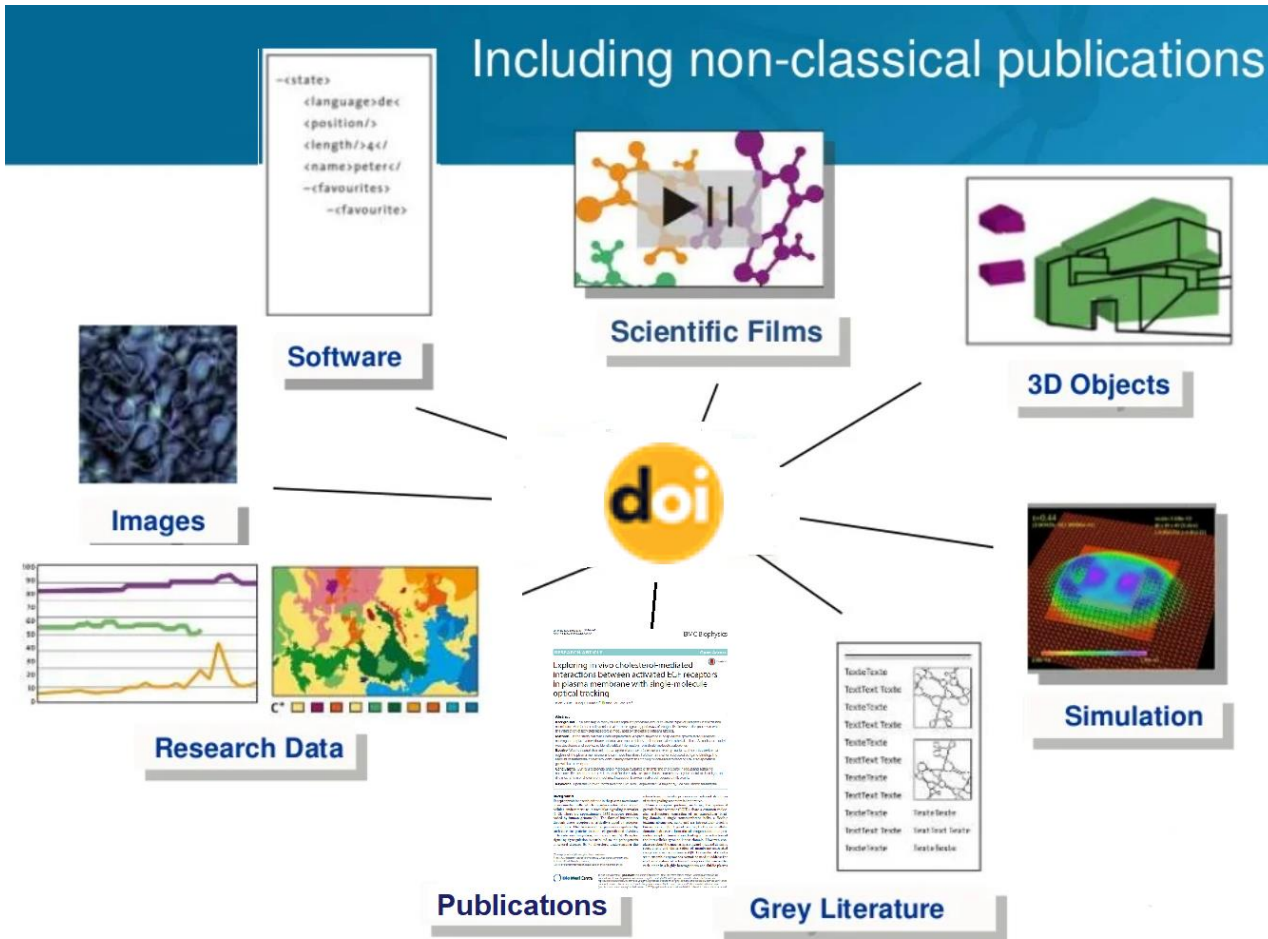
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WHAT CAN BE ASSIGNED A DOI

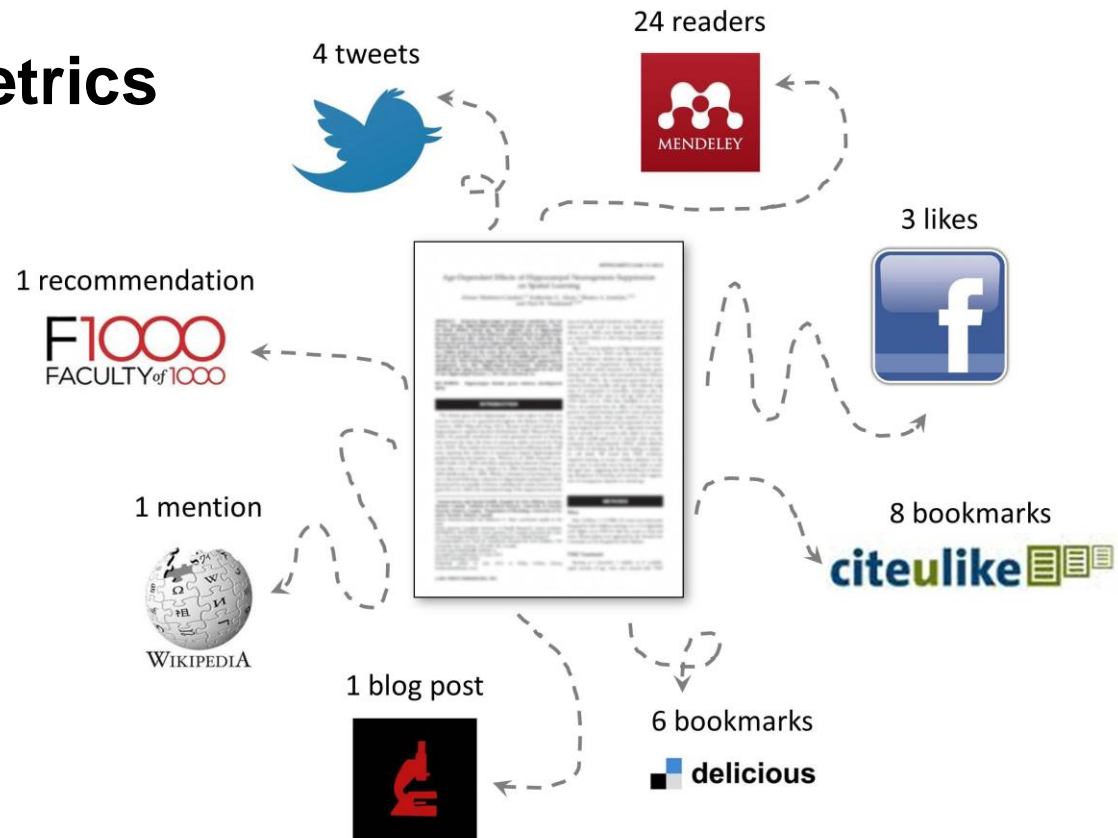


BENEFITS OF A DOI

- ✓ A DOI makes your data **citable**.
- ✓ It guarantees **long-term archiving, access and retrievability**.
- ✓ The most important **metadata is also stored**.
- ✓ A DOI makes it easier to **link objects with related scientific resources** (e.g. publications with data, software, etc.).

SOCIAL MEDIA IN SCIENCE?

Yes →
Alternative metrics



Source: <https://libraryguides.missouri.edu/jresearchimpact/altmetrics>

DOI SERVICE AUSTRIA



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DOI Service Austria

<https://www.tuwien.at/bibliothek/doi-service-austria-orcid-austria>

E-Mail: pid-services@tuwien.ac.at







ORCID AUSTRIA

The screenshot shows the ORCID Austria website. At the top, there is a navigation bar with links for Home, Konsortium, ORCID-Ressourcen, Kontakt, and English. Below the navigation bar is a green banner with a network diagram of iD icons. On the right side of the banner are the logos for TU WIEN Bibliothek (Your knowledge hub) and universität wien Universitätsbibliothek. The main content area is titled 'KONTAKT' and contains the following text:

Wenn Sie eine allgemeine Anfrage zu ORCID und/oder zum ORCID-Konsortium in Österreich haben, kontaktieren Sie uns bitte unter:
office@orcid-austria.org

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THANK YOU!

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