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Comunicación y Sociedad



GRECO

La guía de ciencia abierta para investigadores

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Congreso Iberoamericano de Ciencia Abierta
Noviembre 2022



GRECO

PUTTING OPEN SCIENCE INTO ACTION

GRECO is a project funded by the European Commission. Its main goal is putting Open Science and other Responsible Research and Innovation (RRI) approaches into action in an engineering project on photovoltaic energy.

GRECO is a demonstrator on how researchers will effectively adapt these practices to produce more responsible and socially acceptable products. Our aim is paving the way for other scientists embracing this style of managing science.

GRECO will explore and provide tangible solutions for the challenges of implementing these methodologies into a project. In addition, GRECO will publish its experience in a Guide for Reference in the summer of 2020.



Guía práctica de ciencia abierta – El proceso

Edward de Bono, 1985, psicólogo

Cuestionario de los "6 sombreros"

106 respuestas

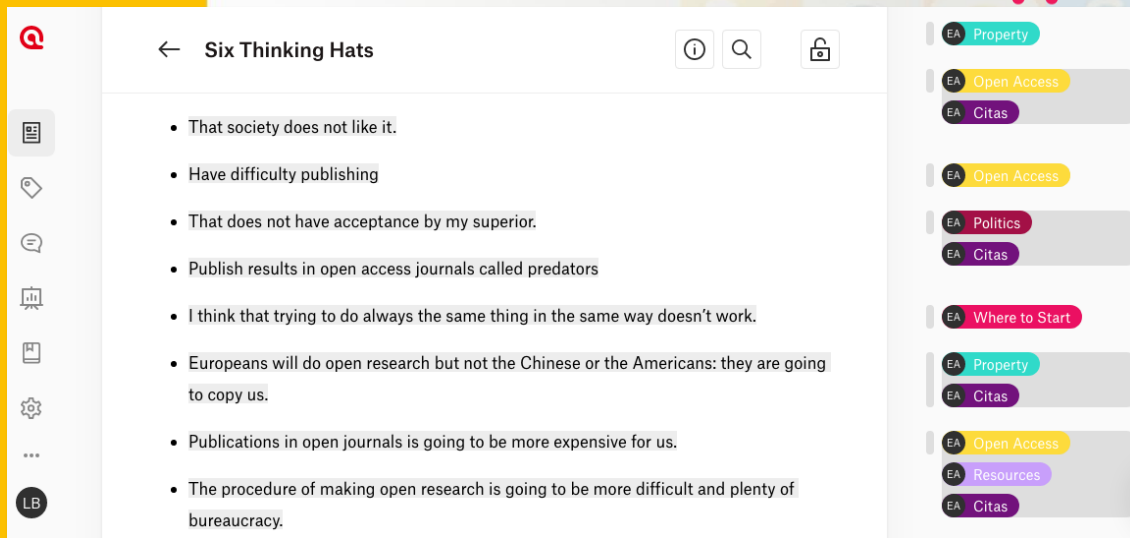
1. Ponte el sombrero blanco y escribe los **hechos** que conoces sobre CA.
2. **Beneficios**
3. **Sensaciones**
4. **Precauciones**
5. Nuevas **ideas**, soluciones o alternativas
6. **Pasos** a seguir



Análisis cualitativo Atlas.ti

11 categorías

3-7 preguntas c/u



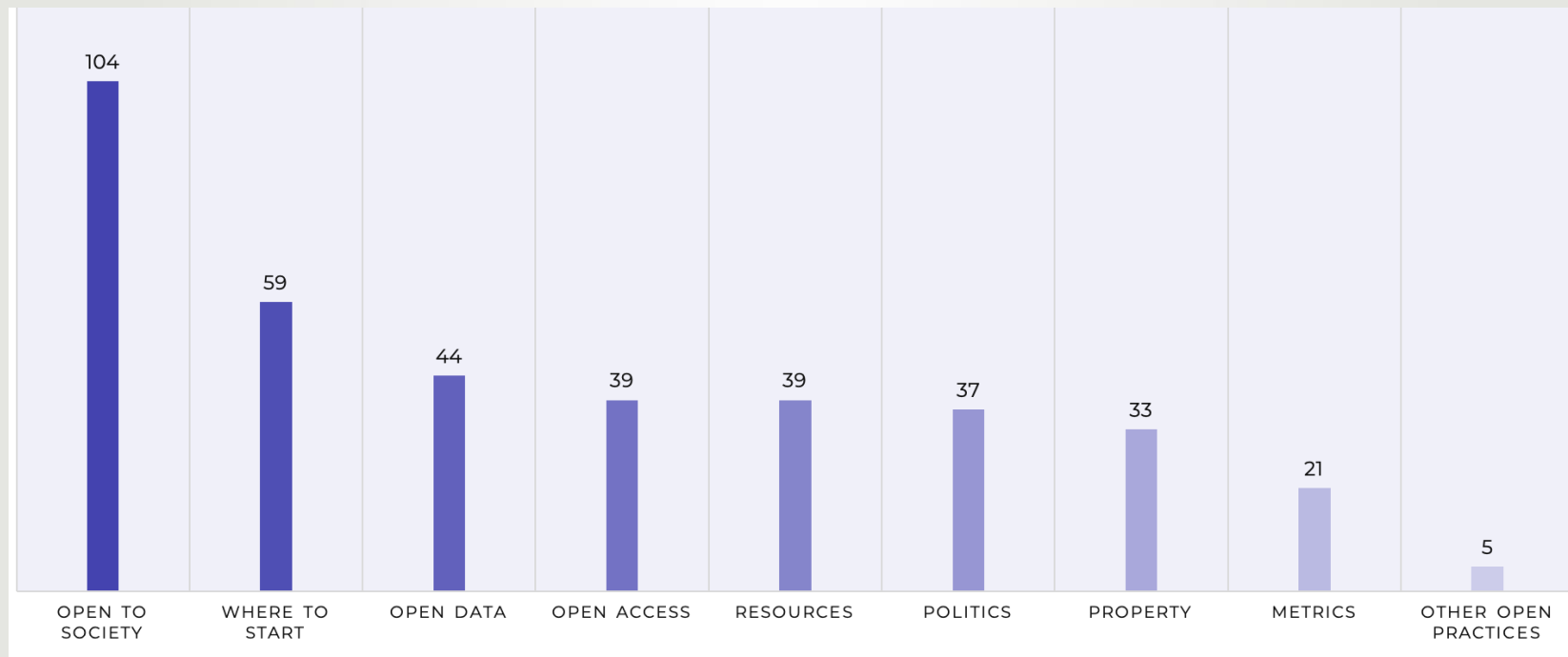
The screenshot displays the Atlas.ti software interface. The central document area is titled "Six Thinking Hats" and contains a bulleted list of text. The right sidebar shows a list of categories with their respective counts, including "Property", "Open Access", "Citas", "Politics", "Where to Start", "Resources", and "Citas".

← Six Thinking Hats

- That society does not like it.
- Have difficulty publishing
- That does not have acceptance by my superior.
- Publish results in open access journals called predators
- I think that trying to do always the same thing in the same way doesn't work.
- Europeans will do open research but not the Chinese or the Americans: they are going to copy us.
- Publications in open journals is going to be more expensive for us.
- The procedure of making open research is going to be more difficult and plenty of bureaucracy.

EA Property
EA Open Access
EA Citas
EA Open Access
EA Politics
EA Citas
EA Where to Start
EA Property
EA Citas
EA Open Access
EA Resources
EA Citas

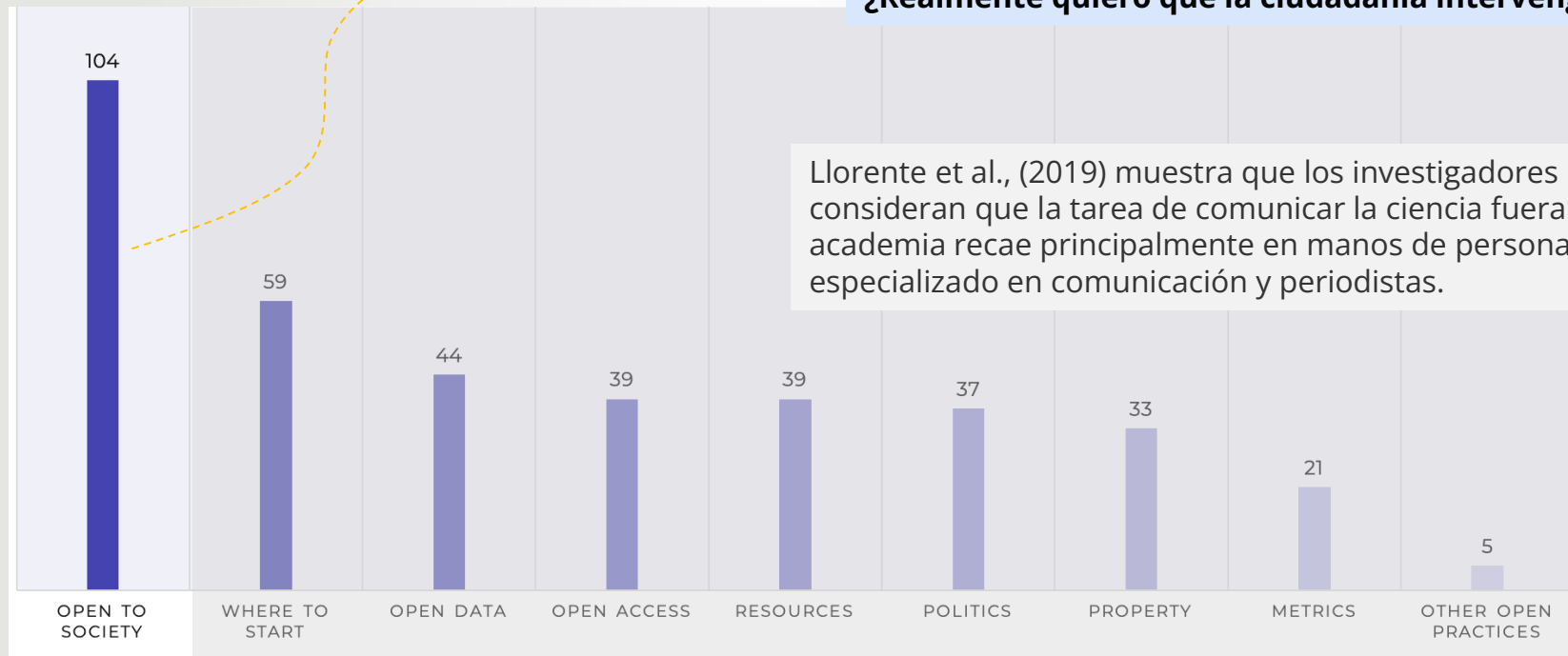
Guía práctica de ciencia abierta – El análisis



Guía práctica de ciencia abierta – El análisis

"Si el usuario final es parte de la decisión, existe una alta posibilidad de aceptación"

¿Realmente quiero que la ciudadanía intervenga?



Llorente et al., (2019) muestra que los investigadores consideran que la tarea de comunicar la ciencia fuera de la academia recae principalmente en manos de personal especializado en comunicación y periodistas.

39 preguntas 9 categorías

+ lista de chequeo
+ beneficios de la CA
+ perspectiva de género

1. *¿Dónde empezar?*
2. *Datos abiertos*
3. *Acceso abierto*
4. *Apertura a la sociedad*
5. *Otras prácticas abiertas*
6. *Propiedad*
7. *Recursos*
8. *Políticas*
9. *Métricas e incentivos*

Download this checklist, share it with colleagues and have it next to your desk!



CHECKLIST

This checklist quickly goes through the different aspects of Open Science (OS) and gives you hints on how to implement it

WHERE TO START

- ☐ Read and watch videos about Open Science (OS) → OECD-iLibrary and → YouTube
- ☐ Check the → rainbow of OS practices
- ☐ Find → examples of OS projects made in your field to get inspiration
- ☐ Take part in short courses → Here and → Here
- ☐ Map the stakeholders involved in your project and plan communication actions for them so they can contribute and improve your work
- ☐ If possible, find a way of involving society in your research process: defining research questions, collecting data, helping with the analysis and more!

OPEN DATA

- ☐ Make your data clear and comprehensible, following the FAIR principles and provide clear metadata
- ☐ Use open notebooks whenever possible
- ☐ Open your data early enough: before even having the full results, you can use collaborative platforms such as GitHub for developing code to process your data
- ☐ Upload your data to an open repository (specific to your field or generalist)

Remember: make your data as open as possible and as closed as necessary!

OPEN ACCESS

- ☐ Contact the librarians at your institution or from a public organization for support
- ☐ Find out the publishing conditions from your funder
- ☐ Check the → Directory of Open Access Journals and → SHERPA/RoMEO databases to identify the best publishing alternatives and the archiving policies
- ☐ Discuss the best route to openness: either Green (is there an embargo period?) or Gold (is there an extra payment, also called APC?)

OPEN TO SOCIETY

- ☐ Get in touch with the communication department of your institution, or with national or regional councils for scientific culture

PROPERTY

- ☐ Specify the licence of your scientific products. When possible, use a Creative Commons Licence so other authors can reuse and share your work
- ☐ Check for property rights of other products you may use in your work (images, data, graphs, etc.) and be sure to use them properly and to attribute them

RESOURCES

- ☐ Make Open Science a new habit in your work!
- ☐ Find support in the administrative departments of your institution, your region or your country. There are lots!

POLITICS

- ☐ Get involved in the decision-making of your institution and support frameworks that create an environment conducive to Open Science
- ☐ Discover which funding programmes incorporate and assess Open Science practices positively

METRICS & INCENTIVES

- ☐ Follow the new proposals for career assessment, as in the Open Science Policy Platform and → Altmetrics
- ☐ Be open to the new publishing trends and reconsider how you determine what research impact is!



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PRACTICAL GUIDE ON OPEN SCIENCE

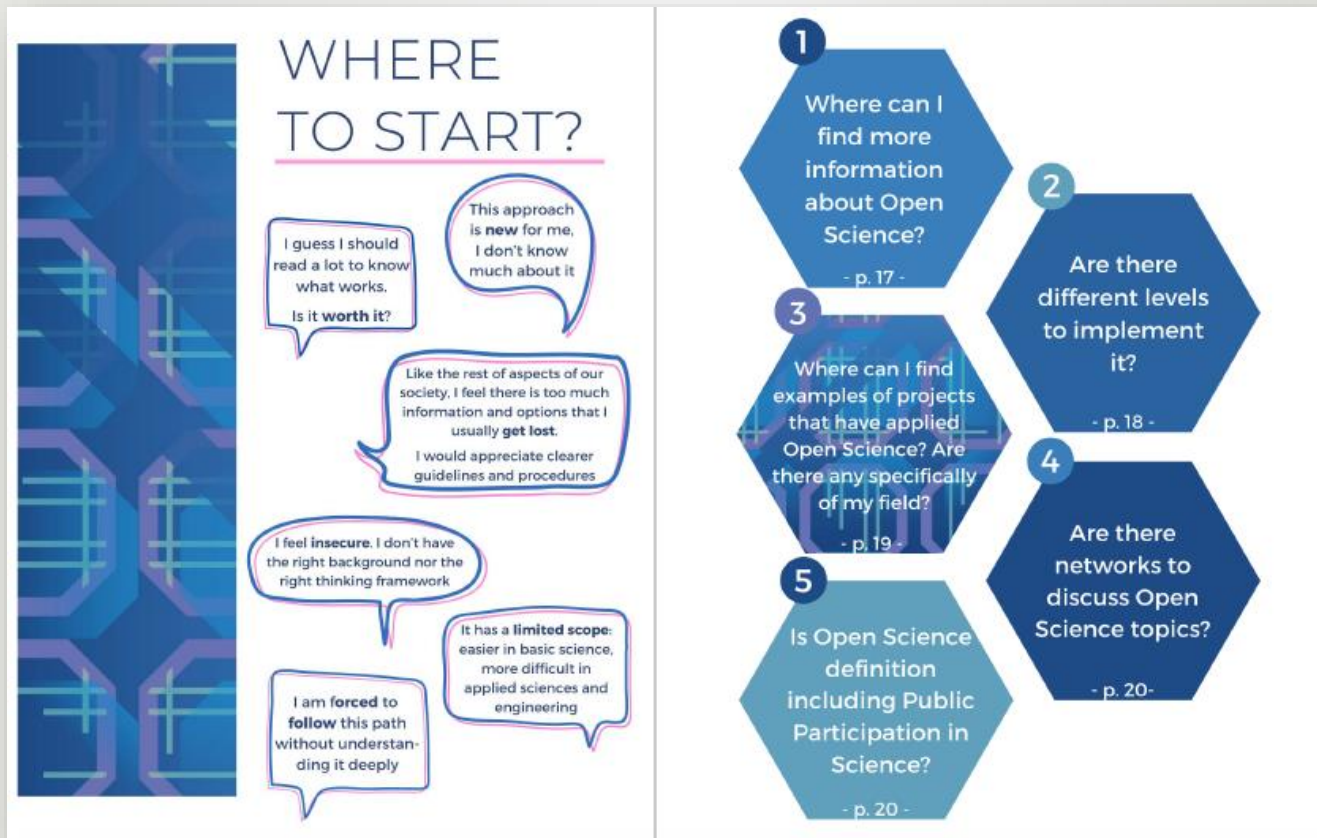
for researchers



<https://zenodo.org/record/4762618#.YUITaj37QdU>

Guía práctica de ciencia abierta – El resultado

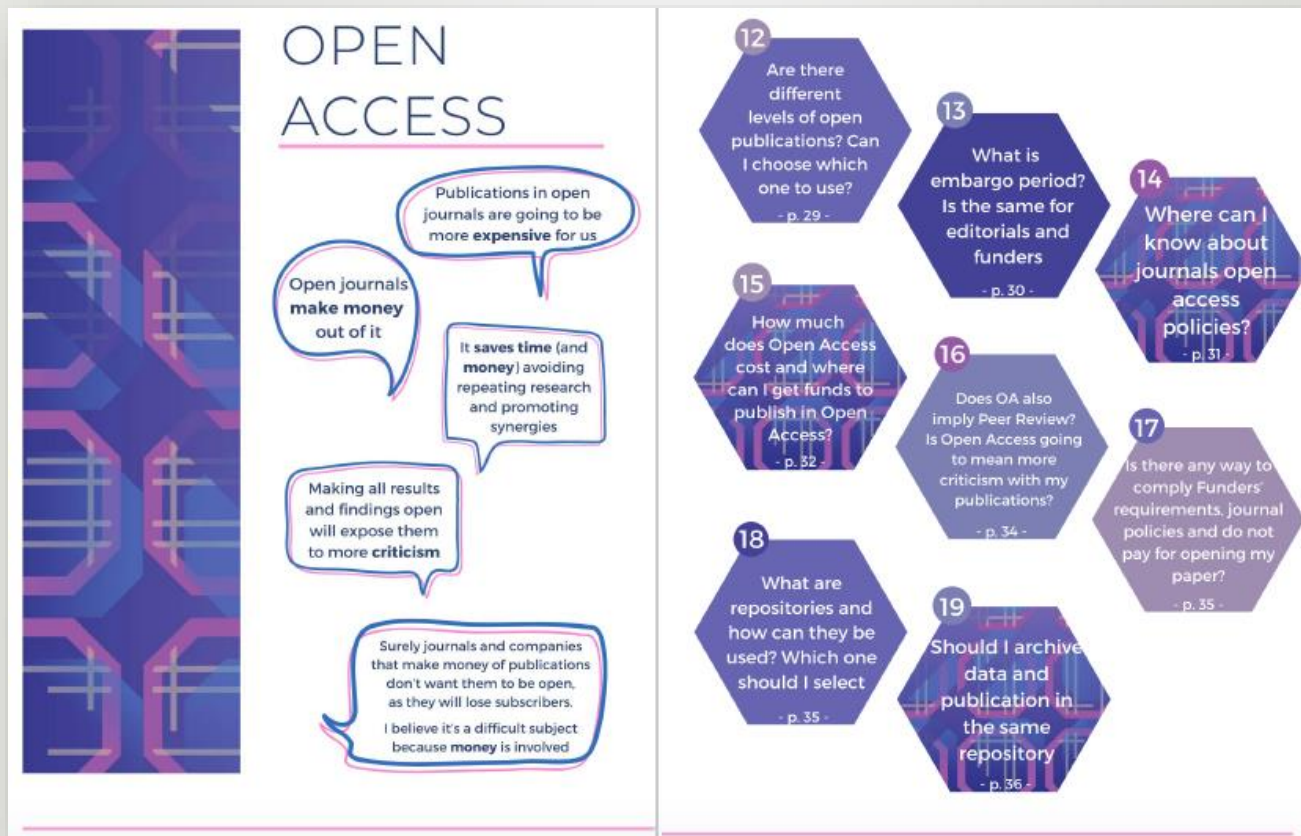
CAPÍTULO 1



Barbosa, et al. (2021). Practical guide on Open Science for researchers (3.0.0). Zenodo. <https://doi.org/10.5281/zenodo.4762618>

Guía práctica de ciencia abierta – El resultado

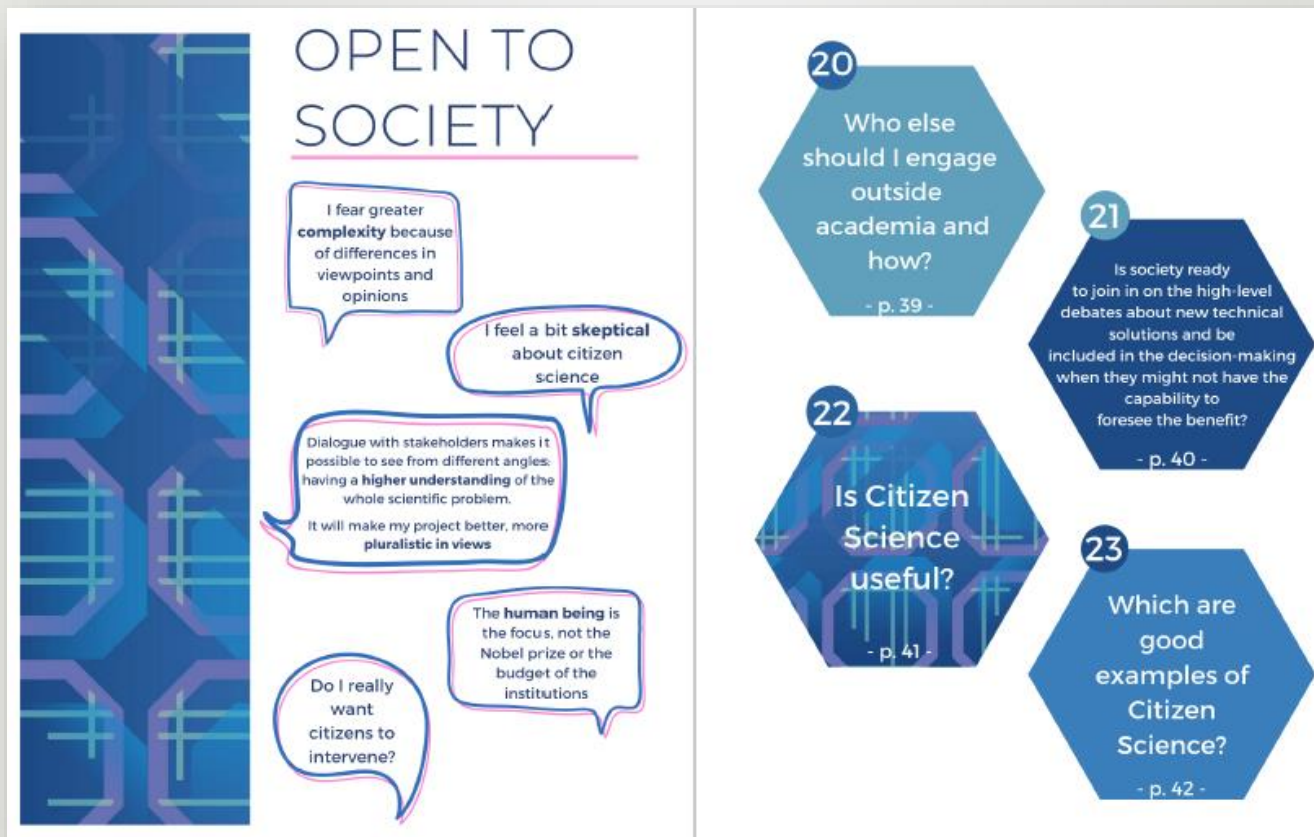
CAPÍTULO 3



Barbosa, et al. (2021). Practical guide on Open Science for researchers (3.0.0). Zenodo. <https://doi.org/10.5281/zenodo.4762618>


Guía práctica de ciencia abierta – El resultado

CAPÍTULO 4



Barbosa, et al. (2021). Practical guide on Open Science for researchers (3.0.0). Zenodo. <https://doi.org/10.5281/zenodo.4762618>

Guía práctica de ciencia abierta – El resultado



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May 14, 2021

Report

Open Access

Practical guide on Open Science for researchers

 Barbosa, Luisa;  del Cañizo, Carlos;  Cristóbal, Ana Belen;  Revuelta, Gema

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For two years, the project GRECO has conducted a survey to analyse the opinions, doubts and experiences of researchers on the field of engineering and photovoltaic (PV) energy about Open Science (OS). We gathered 106 responses, analysed them and came up with 39 Frequently Asked Questions on Open Science. The experience of researchers from the PV field is useful for other fields too. So, this document is a **Practical Guide for Researchers** and tries to solve the most prevalent doubts, concerns and fears. It starts with a checklist for OS, that researchers may consider in various phases of their investigation. Then, the reader will find a Q&A section, structured in nine categories: 1) where to start, 2) open data, 3) open access, 4) open to society, 5) other open practices, 6) property, 7) resources, 8) politics and 9) metrics and incentives. There are 3 to 5 questions for each category, and the responses come from experts on the field and other researchers that have tried and applied OS in its different forms.

At the end of the document there are two additional sections. One with the benefits expressed by the researchers in our survey and another that comments on the gender perspective.

Following OS values, this guide went through an open peer review process and is openly available. For further comments, please contact greco@greco-project.eu.

1,870


views

1,140

downloads

See more details...

Indexed in



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Communities:
[Fostering a Next Generation of European Photovoltaic Society through Open Science](#)

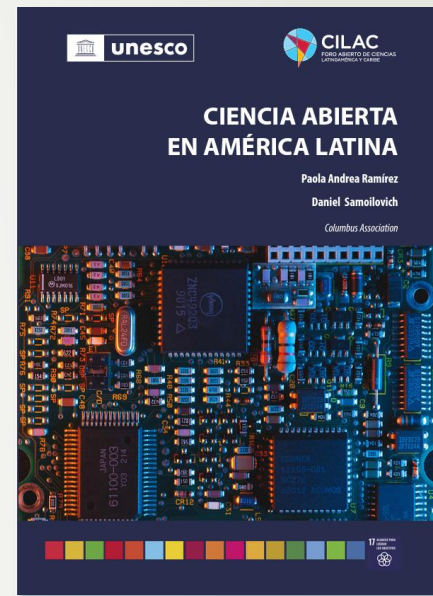
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Preview

Page: 1 of 49 Automatic Zoom

Barbosa, et al.
(2021). Practical
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Zenodo.
<https://doi.org/10.5281/zenodo.4762618>

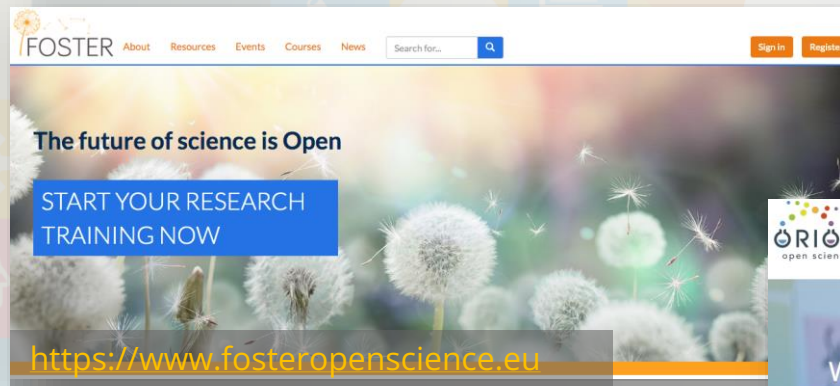
CONCLUSIÓN



- Identificación de principales carencias a nivel de personal investigador no especializado en ciencia abierta.
- Proceso que permite comparación con otros esfuerzos de la región (UNESCO y Foro CILAC)

- Importancia de ofrecer herramientas y realizar capacitaciones para la implementación de la CA.
- Necesidad de vincular estos esfuerzos con las regulaciones y políticas a nivel institucional, nacional y regional.

RECURSOS



Capacitaciones

**Metodologías y
protocolos**

**Recursos
audiovisuales**
(en diferentes idiomas)

**Contenidos
relacionados con
disciplinas específicas**
(ciencias de la vida y
biomedicina)



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¡Gracias!

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