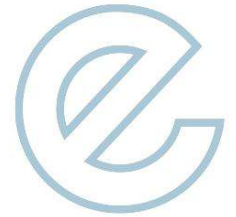


# Open Science for Early-Career Researchers

- Gareth O'Neill
- PhD Welcome Day 2017
- University of Luxembourg
- 26 October 2017

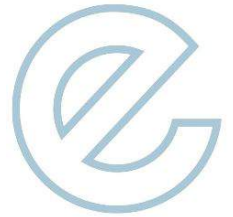
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Candidates and Junior Researchers



## This talk

- Eurodoc as Stakeholder
- What is Open Science?
- Survey on Open Science
- Policy for Open Science



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# Eurodoc as Stakeholder

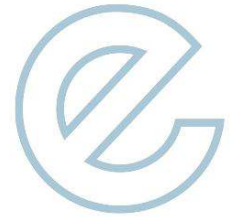


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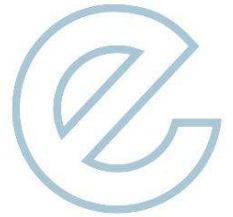
# Eurodoc as Stakeholder

- Eurodoc = European Council of Doctoral Candidates and Junior Researchers
- Registered non-profit organisation established in 2002 & based in Brussels
- Federation of 32 national associations for early-career researchers (ECRs) in Europe
- Run exclusively for & by ECRs in Europe on member fees and in voluntary capacity

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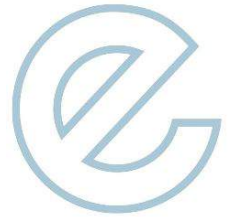
# Eurodoc as Stakeholder

- (1) Represent ECRs on matters of education, research, & career development in Europe
- (2) Advance the quality of doctoral programmes & standards of research activity in Europe
- (3) Share information, organise events, join debates, & shape policies for ECRs in Europe
- (4) Establish & promote cooperation between national associations for ECRs in Europe

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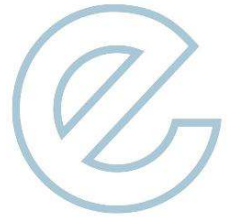
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# Eurodoc as Stakeholder

Develop policy on topics for ECRs:

- Career Development
- Employment Status
- Interdisciplinarity
- Mobility
- Research Integrity
- Doctoral Training
- Equality
- Mental Health
- Open Science
- Research Quality

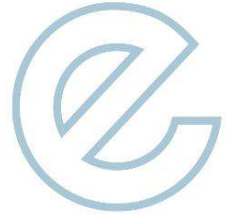


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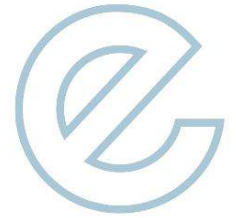


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# What is Open Science?



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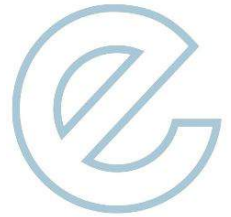
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# What is Open Science?

Three O's of the European Commission (EC):

- Open Innovation = more actors in innovation process for new markets & entrepreneurship
- Open Science (OS) = more open research by digital technologies & collaborative tools
- Open to the World = more cooperation & science diplomacy for societal challenges



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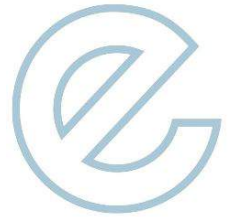
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# What is Open Science?

Open Science = movement to open & evaluate scientific data & research via:

- Alternate Metrics
- Open Access
- Open Education
- Open Peer Review
- Citizen Science
- Open Data
- Open Methodology
- Open Source

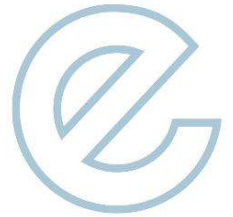
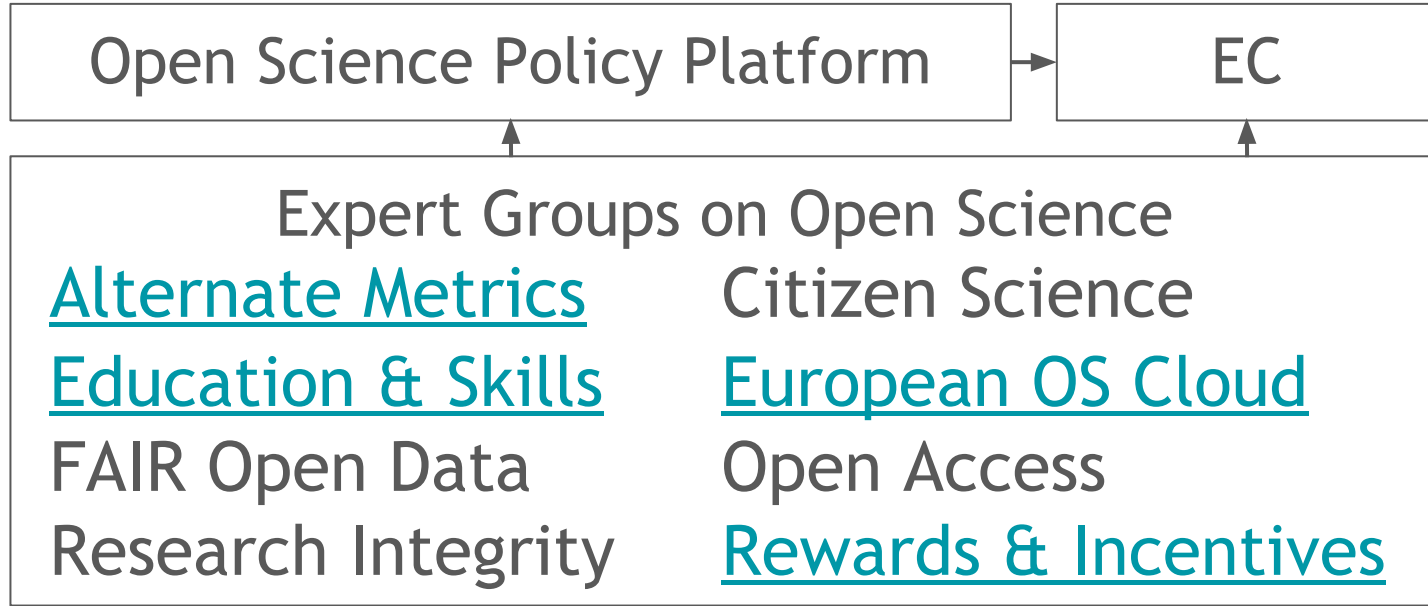


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# What is Open Science?

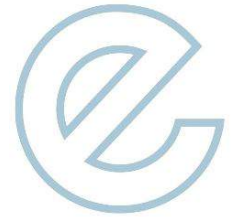


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# Survey on Open Science



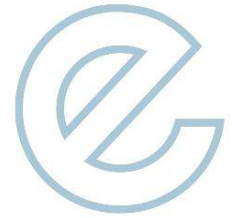
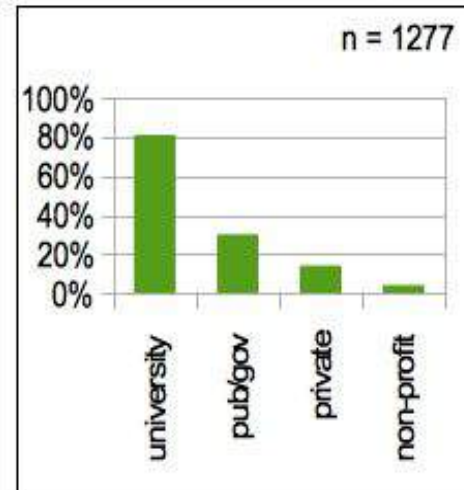
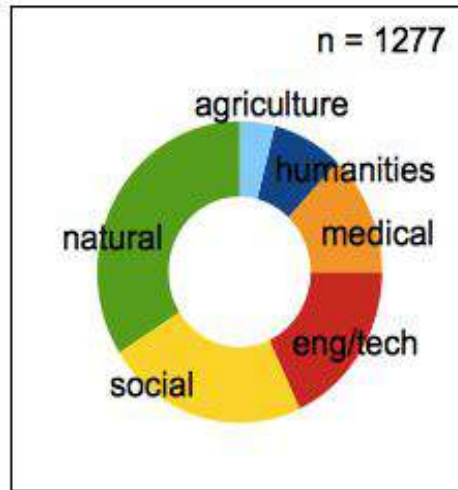
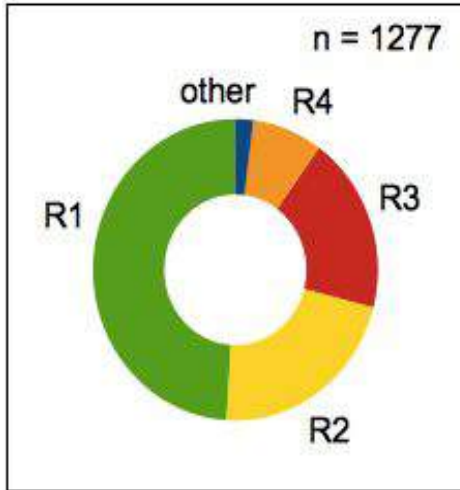
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# Survey on Open Science

Respondents per R1-R4, discipline, & sector:



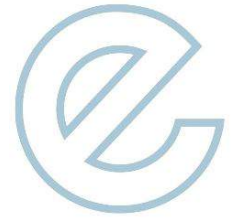
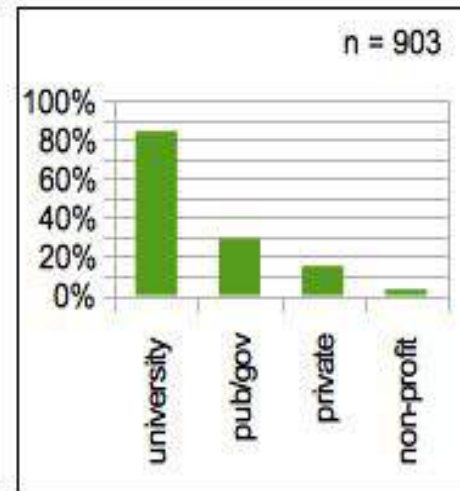
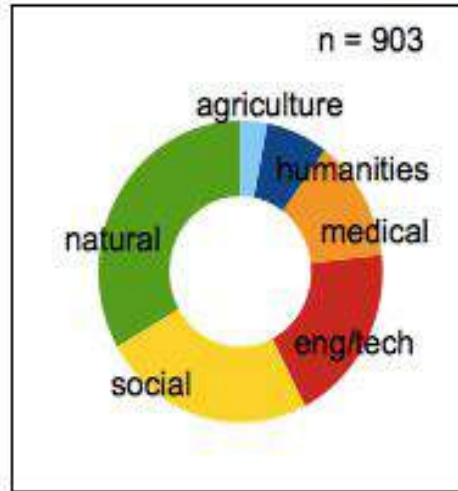
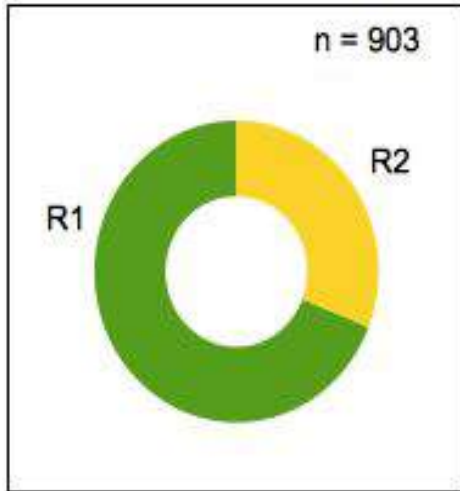
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# Survey on Open Science

Respondents per R1-R2, discipline, & sector:



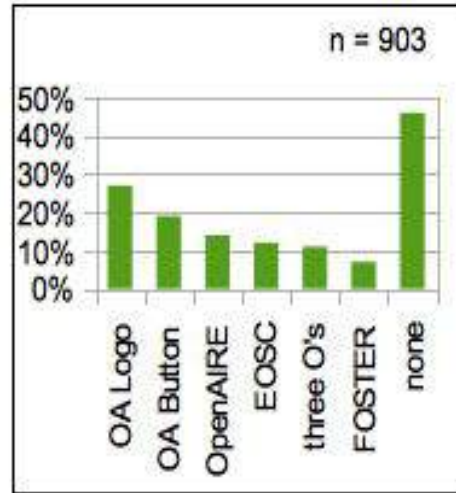
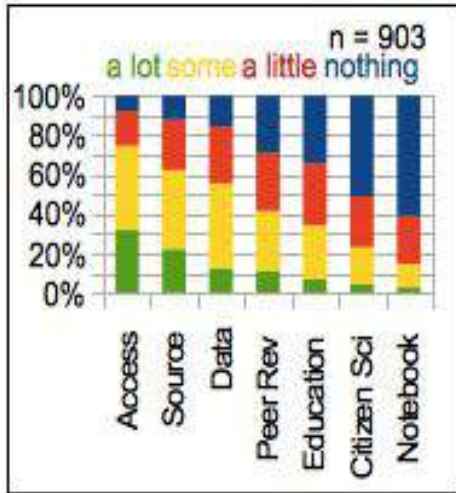
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# Survey on Open Science

## Awareness of practices & initiatives:

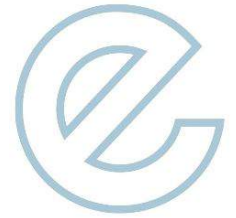


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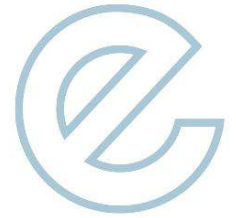
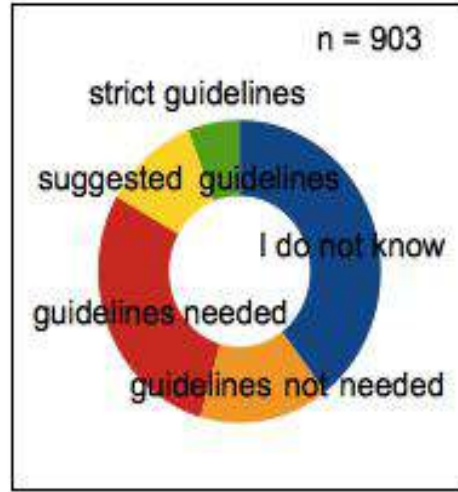
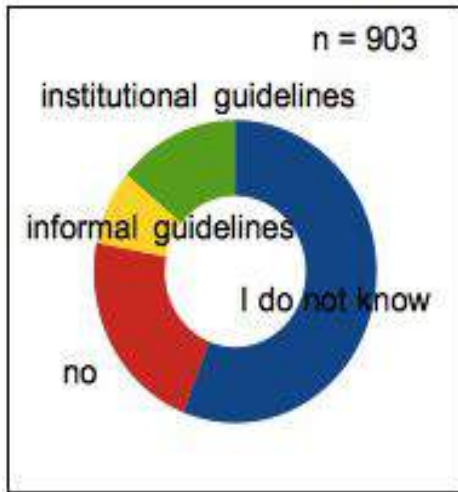
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# Survey on Open Science

Awareness of institute & funding guidelines:



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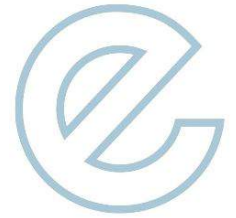
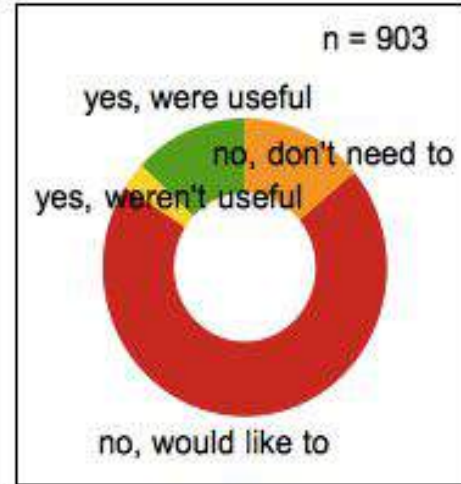
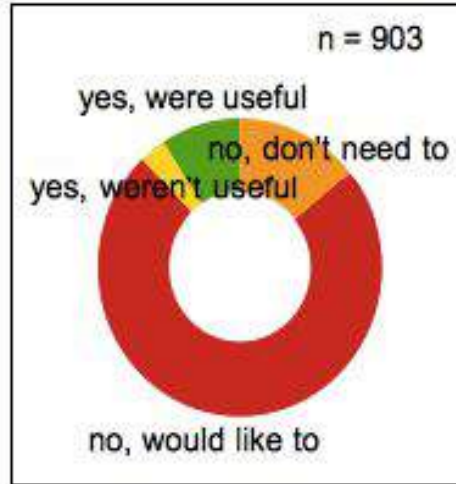
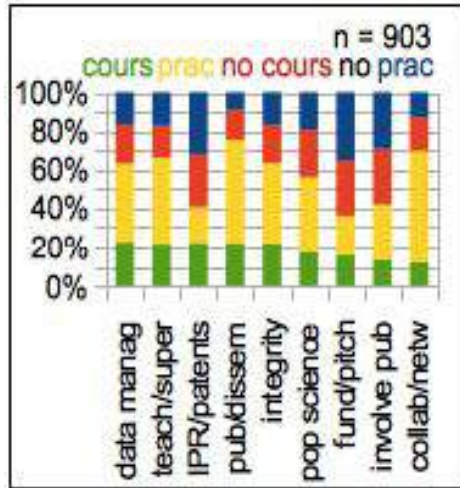
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# Survey on Open Science

## Courses general, Open Access, & Open Data:



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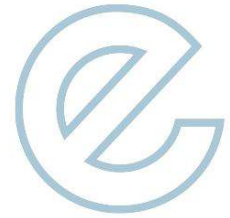
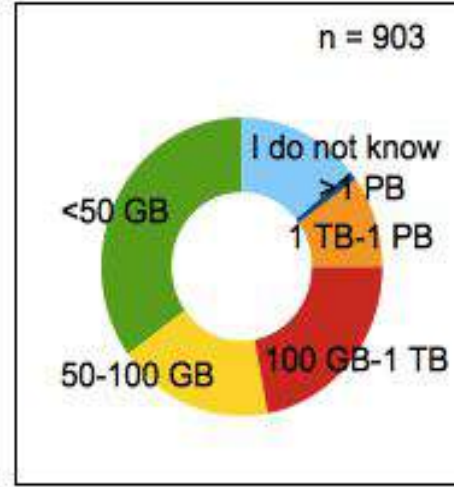
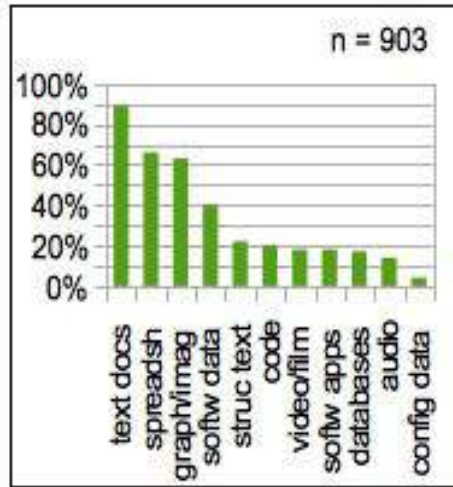
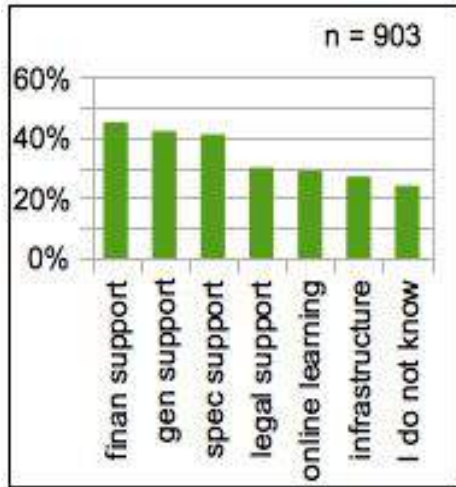
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# Survey on Open Science

Missing support, type, & amount of data:



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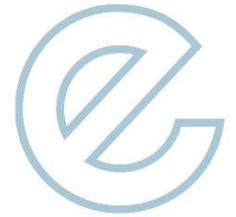
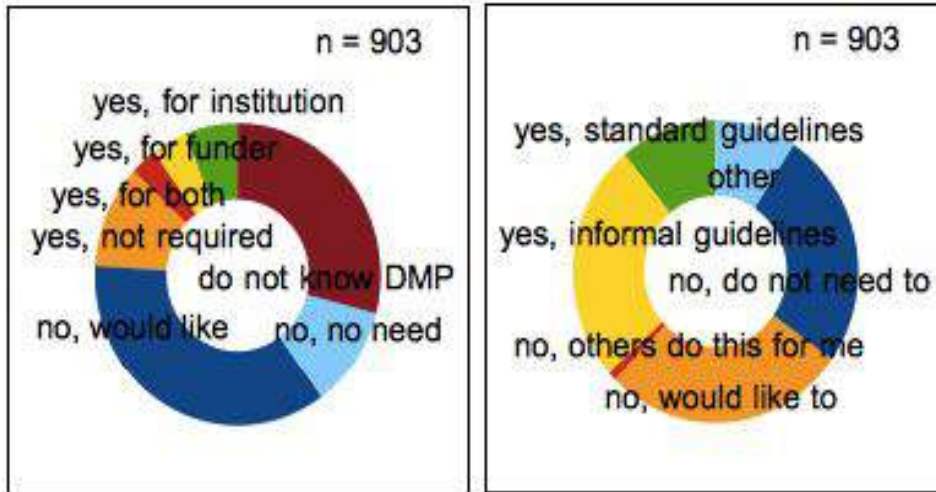
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# Survey on Open Science

## Data Management Plan (DMP) & metadata:



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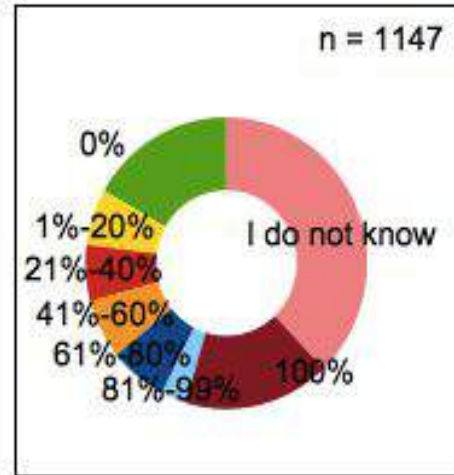
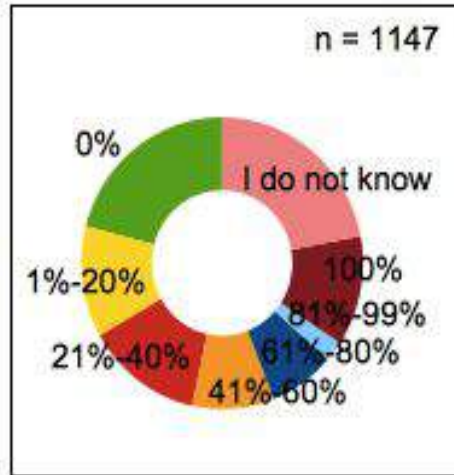
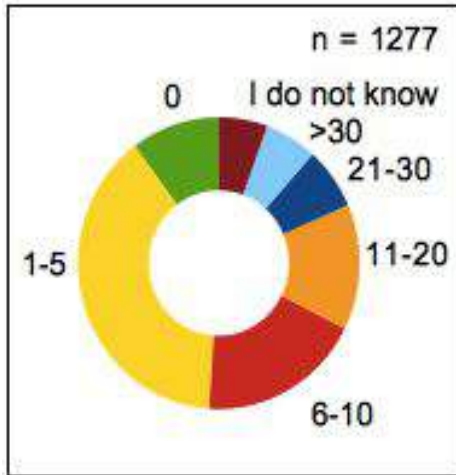
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# Survey on Open Science

# articles, % open journals, & % repositories:



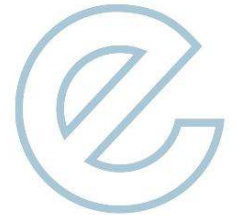
Note that these figures are for the full researcher population (n=1277) and not R1-R2 (n=903).

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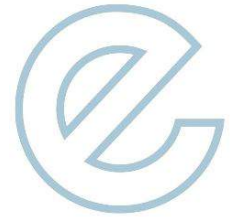
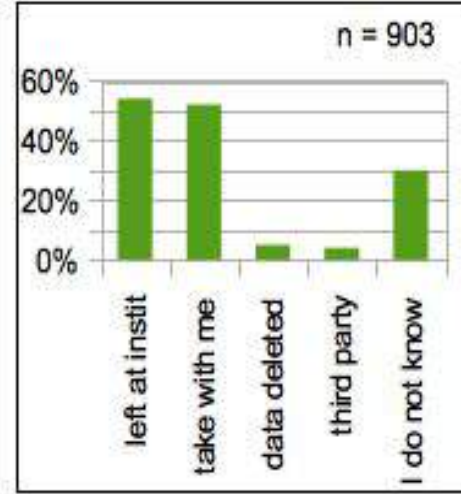
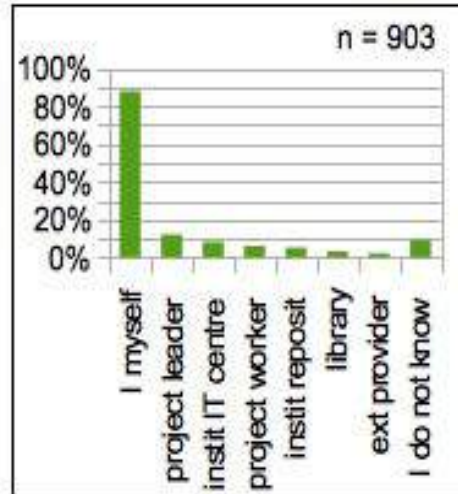
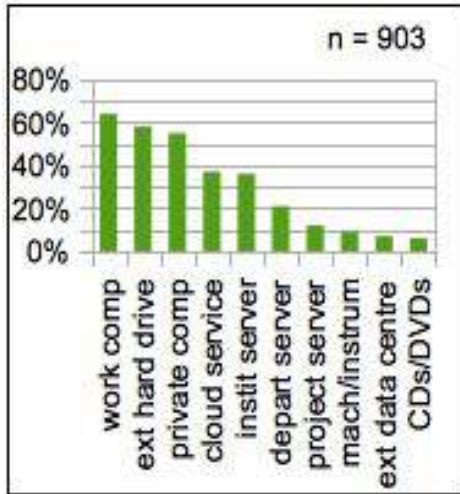
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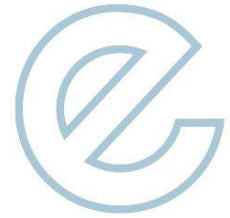
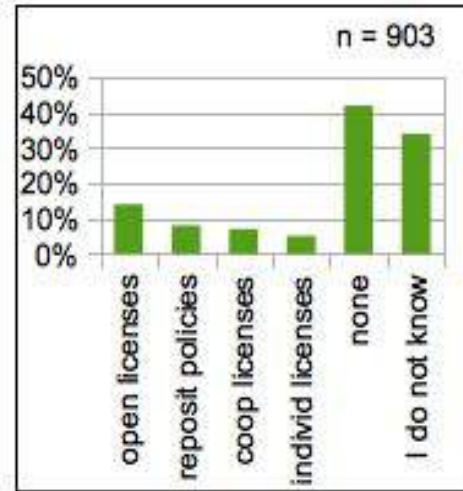
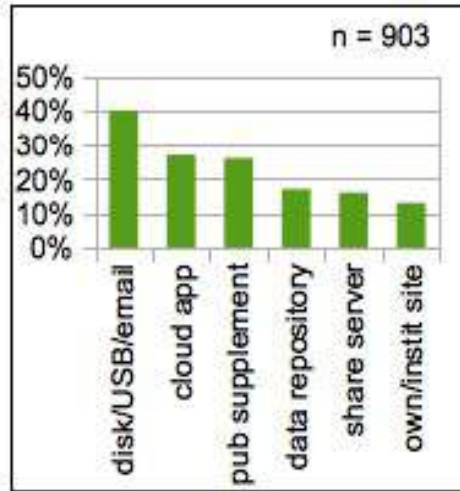
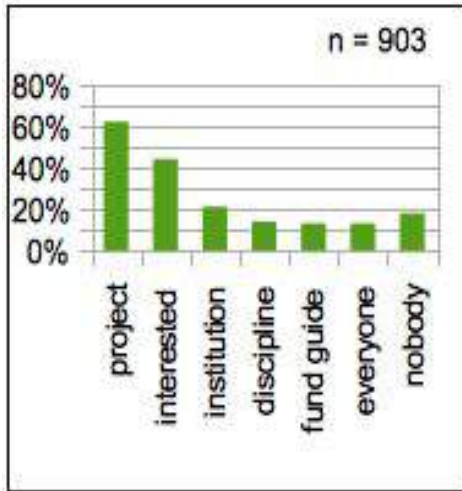
# Survey on Open Science

## Data storage, archiving, and transference:



# Survey on Open Science

Access to whom, how, and user agreements:



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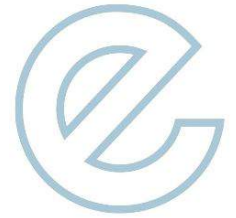
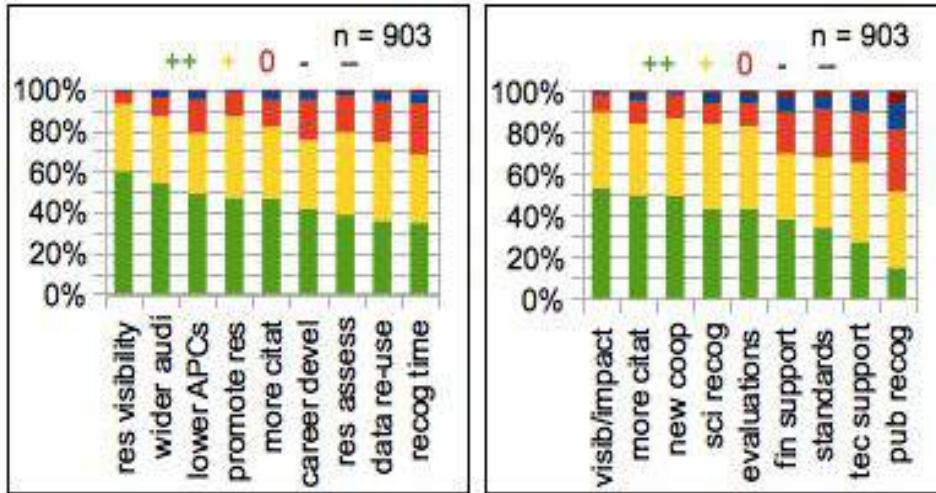
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# Survey on Open Science

## Motivators for Open Access & Open Data:



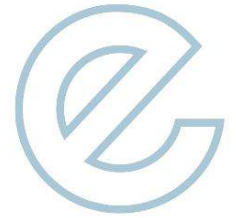
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# Policy for Open Science



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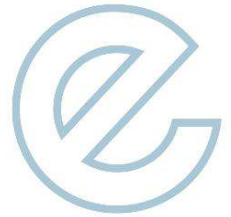
# Policy for Open Science

- Increase *awareness* of OS activities
- Offer clear *guidelines* for doing OS
- Offer tailored *courses* on doing OS
- Offer adequate *support* for doing OS
- Promote use of *DMPs* and *metadata*
- Promote open *access* to research
- Promote real *benefits* of doing OS
- Track *effects* of OS on researchers



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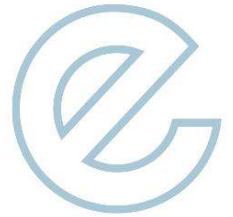


# Open Science for Early-Career Researchers

Thank you for listening!

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