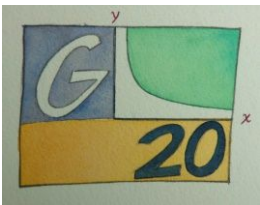


Open Data engages Citation and Reuse: A Follow-up Study on Enhanced Publication

Dominic Farace and Jerry Frantzen
GreyNet International, Netherlands



Joachim Schöpfel
University of Lille, France



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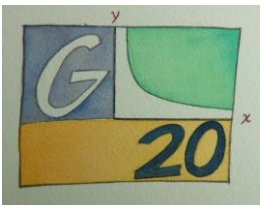
EPP

Background Enhanced Publications Project 2011-2012

Enhanced publication inherently contributes to the review process of grey literature as well as the replication of research and improved visibility of research results in the scholarly communication chain.

GreyNet's Implementation

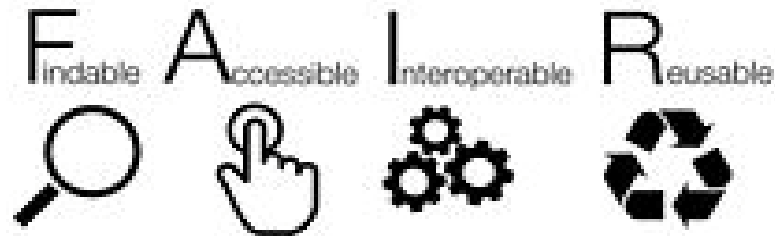
1. Design of the Questionnaire and Author Survey
2. Acquisition and Submission of Research Data
3. Data upload and cross-linking OpenGrey ↔ DANS Archive
4. Draft of EPP guidelines and the design of a workflow



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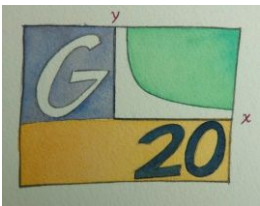


EPP Follow-up Data Papers Project 2017-2018



Data Papers

Scholarly publications of a searchable metadata document describing a particular online accessible dataset or a group of datasets published in accordance to standard academic practices. As such, data papers represent a scholarly communication approach to data sharing ([wikipedia.org](https://en.wikipedia.org)).



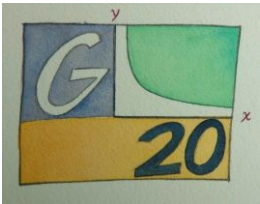
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Author Survey on Research Data 2018

This study sought to demonstrate the reuse of survey data collected in 2011 combined with survey data that was newly collected via an online questionnaire.

And in so doing, a selection of questions from the 2011 Survey was joined by newly formulated questions in constructing the 2018 Questionnaire.



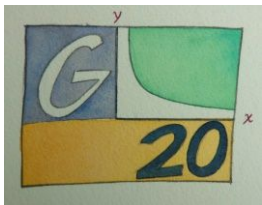
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Survey Population 2011 and 2018

The survey populations were drawn from among GreyNet's author base:

Survey Population	First Authors	Survey Recipients	Survey Respondents	Survey Results %
2011	162	95	50	52,6%
2018	115	94	44	46,8%



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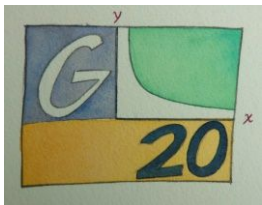


Questionnaire 2018

The 2018 questionnaire consisted of 10 questions, 6 of which appeared on the 2011 questionnaire.

The 6 questions that were repeated dealt with the author's own empirical research data, its availability, the formats in which it appears, and the author's willingness to archive it and make it openly accessible.

The 4 additional questions dealt with the respondent's citation and reference to data, their use of data journals in carrying out search and retrieval, and whether they had (co)authored a data paper or data article.



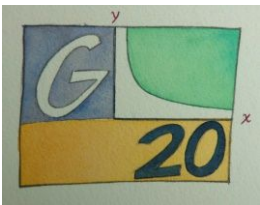
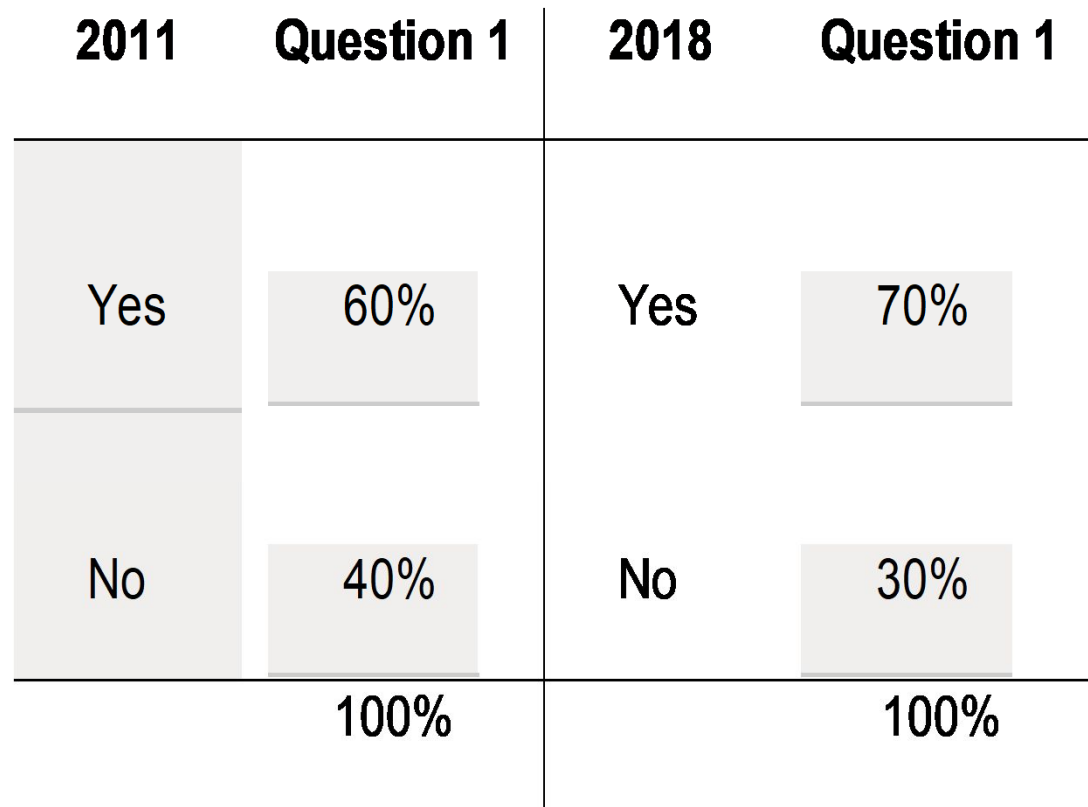
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Survey Results

2011 - 2018

Does one or more of your conference papers in the GL-Series base its findings on empirical or statistical data?



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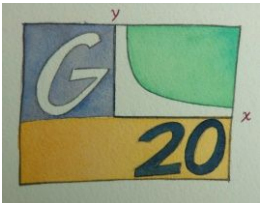


Survey Results

2011 - 2018

If so, would these data and/or datasets still be available in part or whole for archiving purposes?

2011	Question 2	2018	Question 2
Yes	54,1%	Yes	60%
No	45,9%	No	20%
Other	0%	Other	20%
100%		100%	



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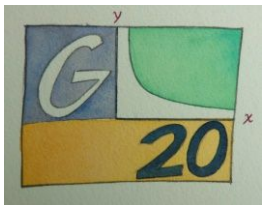


Survey Results

2011 - 2018

Would you be willing to submit data, datasets, or subsets to DANS that would in turn be linked to their existing metadata records?

2011	Question 5	2018	Question 3
Yes	48,9%	Yes	51,2%
No	6,7%	No	9,3%
	Uncertain		Other
	44,4%		39,5%
	100%		100%



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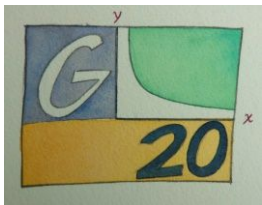


Survey Results

2011 - 2018

If so, would you prefer that GreyNet entered your (retrospective) data and/or datasets in DANS, or would you prefer to do this directly?

2011	Question 6	2018	Question 4
GreyNet	44,7%	GreyNet	41,5%
Self	18,4%	Self	41,5%
	No Preference 36,9%		Other 17%
	100%		100%



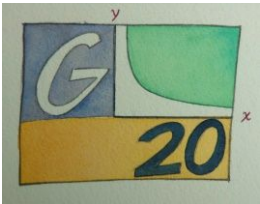
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Survey Results 2011 - 2018

What kind of data and data formats have you used/are using in your research?

2011	Question 9	2018	Question 5
	Specific		Specific
	44%		75,9%
	General		General
	38%		18,9%
	N/A		N/A
	18%		5,2%
	100%		100%



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Survey Results 2018

Question 6

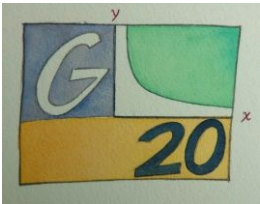
**Have you ever cited or referenced data(sets)
in one or more of your publications?**

Answered: 43 | Skipped: 1

Yes 44%

No 44%

Other 12%



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Survey Results 2018

Question 7

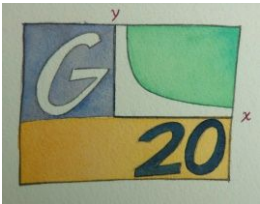
**When doing research,
have you or a colleague ever reused data?**

Answered: 40 | Skipped: 4

Yes 50%

No 50%

Other -



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Survey Results 2018

Question 8

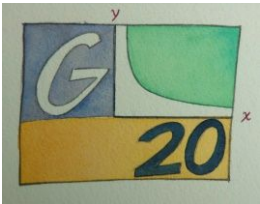
**Do you at times include data papers or data journals
in your browse and search strategy?**

Answered: 43 | Skipped: 1

Yes 39%

No 56%

Other 5%



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Survey Results 2018

Question 9

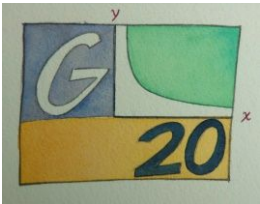
**Have you ever cited or (co)authored
a data paper or data article?**

Answered: 42 | Skipped: 2

Yes 24%

No 67%

Other 9%



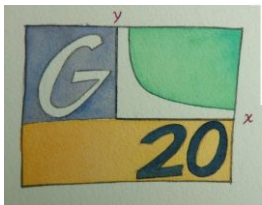
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Survey Results 2011 - 2018

Please enter your name, email address, and any other comments or recommendations that would be of benefit to this survey

2011	Question 10	2018	Question 10
Answered	84%	Answered	73%
Skipped	16%	Skipped	27%
Total 50 Respondents	100%	Total 44 Respondents	100%



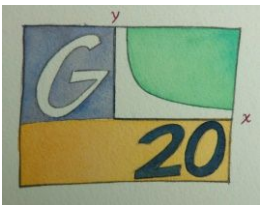
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Data Analysis

Significant changes 2011-2018

- More data and/or datasets are available in part or whole for archiving purposes (54% → 60%) $p = .005$
- More authors prefer entering their data and/or datasets directly in DANS (18% → 42%) $p = .05$
- The data and data formats are more specific (44% → 76%) $p = .1$



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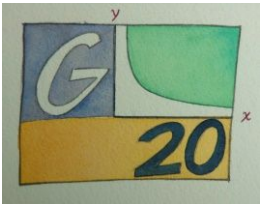


Data Analysis

Insignificant or No Change

2011-2018

- 50% of the respondents are willing to submit data, datasets, or subsets to DANS
- 40% of the respondents prefer that GreyNet enter their data and/or datasets in DANS

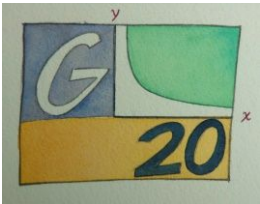


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Some General Conclusions

- Not all papers are based on empirical data
- Not all data can be shared
- Growing data awareness and literacy
- A community in transition



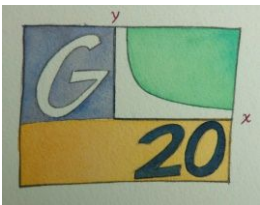
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Lagniappe

Open Data engages Citation and Reuse

- Research Data published prior to the Research Paper
- Data Paper published prior to the Research Paper
- ORCID and DOI persistent identifiers will be further included in the GL-Conference Papers
- Results of this Follow-up Study have and will be included in GreyNet's program of Training and Workshops



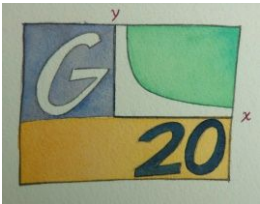
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Thanks!

‘Now Let’s Get Your Data Cited’

info@greynet.org



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