VU Research Portal

A new approach to data access and research transparency (DART)

Beugelsdijk, Sjoerd; van Witteloostuijn, Arjen; Meyer, Klaus E.

published in

Journal of International Business Studies 2020

DOI (link to publisher)

10.1057/s41267-020-00323-z

document version

Publisher's PDF, also known as Version of record

document license

Article 25fa Dutch Copyright Act

Link to publication in VU Research Portal

citation for published version (APA)
Beugelsdijk, S., van Witteloostuijn, A., & Meyer, K. E. (2020). A new approach to data access and research transparency (DART). Journal of International Business Studies, 51(6), 887-905. https://doi.org/10.1057/s41267-020-00323-z

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- · Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
 You may freely distribute the URL identifying the publication in the public portal?

Take down policy
If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

E-mail address:

vuresearchportal.ub@vu.nl



EDITORIAL

A new approach to data access and research transparency (DART)

Sjoerd Beugelsdijk¹, Arjen van Witteloostuijn² and Klaus E. Meyer³

¹ University of Groningen, Groningen, The Netherlands; ² Vrije Universiteit Amsterdam, Amsterdam, The Netherlands; ³ Ivey Business School, University of Western Ontario, London, Canada

Correspondence: S Beugelsdijk, University of Groningen, Groningen, The Netherlands e-mail: s.beugelsdijk@rug.nl

Abstract

Recent debates on transparency and replicability suggest that *JIBS* needs to update its approach on data access and research transparency (DART). We propose a series of initiatives, knowing well that there is a balance to be struck. There are clear benefits on the one hand, chief among these the potential for learning and knowledge accumulation, and equally manifest challenges on the other: the imperative to respect privacy, confidentiality, and intellectual property rights. Without addressing these challenges, will there be the high-quality data on which the benefits depend? We present access and transparency objectives, and set out how an actionable and effective approach towards DART will be implemented, but also address ethical, legal, and organizational challenges of concern to us as a scholarly community.

Journal of International Business Studies (2020) **51**, 887–905. https://doi.org/10.1057/s41267-020-00323-z

Keywords: transparency; data access; knowledge accumulation; open science; research methods

INTRODUCTION

The need for access to research data and for transparency of the research process have been discussed extensively across the social sciences (Miguel et al., 2014; Nosek, 2015). Many academic journals have revised their policies, recognizing the value of cumulative knowledge creation and providing a good foundation for it by calling for enhanced evidence trails and reanalysis of data. There are clearly advantages to having open access to data, but there are also justifiable ethical and legal concerns about data sharing.

We introduce a new *Journal of International Business Studies (JIBS)* approach for Data Access and Research Transparency (DART).¹ The overarching aim of the new approach is to further cumulative knowledge by encouraging the sharing of research data. However, the sharing of data is not always feasible or appropriate. Therefore, we aim for an approach that enhances transparency in an actionable, sensitive, and pragmatic way, while at the same time enabling researchers to pursue a wide range of research methodologies.

We begin by setting out the motivations behind the new approach. We then look at current practices, in social sciences broadly, and international business and management specifically.



We also outline our expectations of the impact of the new approach on the scientific process of knowledge creation, and in tandem the legal, ethical, and organizational ramifications of sharing complete datasets, knowing well that it can be challenging, even inadvisable sometimes. Our synthesis is intended to help authors make informed decisions about data management. We also broach taking a stance on DART, and communicating it to editors and reviewers. The members of the JIBS editors team see the new DART approach as a logical extension of the Academy of International Business (AIB) Journals Code of Ethics instituted nearly a decade ago and revised in 2018 (Eden, 2010).² The new *JIBS* DART approach has been endorsed by the Executive Board of the AIB.

HOW EDITORIAL POLICY IS CHANGING

Transparency of Research

Transparency is a key attribute of scholarly research (Eden, 2010), from data production to analysis. For quantitative empirical studies – including hypothesis-testing studies – we see full transparency as comprised of an easy-to-follow explanation of the way in which data are generated or collected and also of the procedures used to reach conclusions. At the far ends of the continuum are "no disclosure" and "full transparency". Full transparency is the full disclosure of all data, clear access to the codes to run the analysis, and a full explanation of the way the data have been collected, such that all tables and figures in a published article can be reproduced.

The term full transparency needs to be modified depending on the type of data used (for qualitative data, see Bluhm et al., 2011; Elman & Kapiszewski, 2014; Monroe, 2018; Pratt, Kaplan, & Whittington, 2020). Different organizations and journals have undertaken different transparency-enhancing initiatives. For instance, the American Economic Association has launched an online registry for randomized controlled trials, and Perspectives on Psychological Science and many other journals offer authors the possibility of peer review of their research design with approval basically amounting to conditional acceptance - even before data collection (Miguel et al., 2014). Other journals give editors the latitude to ask authors to provide raw output files, or even raw data and associated statistical programming files, which would permit reproducing results. These policies have teeth as non-compliance is a potential reason for the rejection of a manuscript.

Transparency has to do with process. The peer-review process has a long history (Lee et al., 2013), and is aptly described as "a system of institution-alized vigilance" (Merton, 1973: 339). Editors and reviewers expect authors to provide a detailed description of the methodology they use, for example, sampling procedures, data sources, variable measurements, and descriptive statistics. As shown in Table 1, the editors of some journals also request intermediate data-processing documents such as codes or outputs from analytical software, or questionnaires in the original language. Though these materials are rarely published, their very submission as part of the review process enhances the credibility of the published results.

As leading good practice, some international business scholars voluntarily make available the datasets or indices used in their studies. Dow and Karunaratna (2006) make their data on countrylevel determinants of psychic distance available on a personal website.³ Berry, Guillen, & Zhou (2010) make available on university websites their data on cross-national distance, 4 and Schotter and Beamish (2013) their data on the hassle factor, a multi-item measure of the difficulty of doing business in a country.⁵ The original individual-level data used by Schwartz (2006) to develop dimensions of national cultural value orientation are available for a small fee from the Israeli Social Science Data Center. These authors share country-level indicators. However, many international business research questions concern firm-, team-, or individual-level constructs. For reasons discussed below, the sharing of such micro-level data is less common.

IIBS Current Editorial Policy

Transparency is addressed in the AIB Journals Code of Ethics (Eden, 2018).⁶ Items 3.5.2 and 3.5.3 require authors to be fully transparent in the handling of data.

Authors should report their findings fully and should not omit data that are relevant within the context of the research question(s). Results should be reported whether they support or contradict expected outcomes. Authors should take care to present relevant qualifications to their research or to the findings and interpretations of them. Underlying assumptions, theories, methods, measures, and research designs relevant to the findings and interpretations of their work should be disclosed. (item 3.5.2)

The manuscript should contain sufficient detail and references to permit peers with access to the same dataset to repeat the work. (item 3.5.3.)

ianagement journals
RT) policies in business and m
d research transparency (DA
Examples of data access and
Table 1

	DART policy	Voluntary/compulsory
Journal of Management (JoM)	"When the Methods section cannot accommodate all details, authors should submit a supplemental file that details the process used for collecting, measuring, and testing the data, including the coding syntax of the analytical procedure, questions in surveys, how the sample was created, computer output of analyses, etc. Such a file may be requested as appropriate during the review process." Source:https://us.sagepub.com/sites/default/files/jomquantitative_submission_reporting_	Upon request
Journal of Marketing	"/M supports Web appendixes. This enables authors to provide data for replication or deep understanding that would be difficult to include in the print version." Source: https://www.ama.org/publications/JournalOfMarketing/Pages/jm-submissionaguidelines.aspx Acceptance letters state: "Please be aware that the authors of JM manuscripts using data dependent results are required to provide full and exact information about the empirical work (e.g., stimuli, measures, data collection procedures), upon request, for up to 5 years from the date of publication to researchers interested in replicating and/or extending the research." Source: Personal communication with IM editor N. Morgan.	Voluntary
Journal of Organizational Behavior (JOB)	"Journal of Organizational Behavior encourages data sharing wherever possible, unless this is prevented by ethical, privacy, or confidentiality matters. Authors publishing in the journal are therefore encouraged to make their data, scripts, and other artefacts used to generate the analyses presented in the paper available via a publicly available data repository; however, this is not mandatory. If the study includes original data, at least one author must confirm that he or she had full access to all the data in the study and takes responsibility for the integrity of the data and the accuracy of the data analysis." Source:https://onlinelibrary.wiley.com/page/journal/10991379/homepage/forauthors.	Voluntary
Management Science	"To support the scientific process, Management Science encourages (but does not require) the disclosure of data associated with the manuscripts we publish – if authors are willing to make their data available and accessible to the public, Management Science will post the data to the journal's website. This policy will apply to all manuscripts accepted after January 1, 2013." Source: https://pubsonline.informs.org/page/mnsc/datapolicy	Voluntary
Organization Science (OrgSc)		Upon request

60.	
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Table 1 (Continued)		
	DART policy	Voluntary/compulsory
Strategic Management Journal (SMJ)	"Recognizing the importance of research transparency and data sharing to cumulative research, \$MJ encourages authors to share the data supporting the results in their study by archiving them in an appropriate public repository. In partnership with the non-profit Center for Open Science (COS), \$MJ will award qualifying authors an Open Practice badge recognizing their contributions to the open science movement [] \$MJ is making the FIVES Project data repository (http://five.dartmouth.edu) available to either store the data and documentation or provide links on the FIVES website to the data and documentation or provide links on the FIVES website to the data and documentation on other open access websites. Other example repositories include the Open Science Framework (OSF), the various Dataverse networks, and others listed at the Registry of Research Data Repositories (http://www.re3data.org). Personal websites and most departmental websites do not qualify as repositories [] "As of October 2017, authors will have an opportunity at the time of manuscript submission and again at the time of acceptance to inform themselves of this initiative and to determine whether they wish to participate. Applying and qualifying for the Open Data badge is not a requirement for publishing with \$MJ, but this badge is further incentive for authors to participate in the open science movement and thus to increase the visibility and transparency of their research." Source: https://onlinelibrary.wiley.com/page/journal/10970266/homepage/forauthors.html	Voluntary

Practices evolve over time. This table was developed based on an assessment of these journals in November 2018. Journals are listed in alphabetical order.

JIBS and most of its peer journals adhere to good research practices, and enforce them in part through the review process. The AIB Journals Code of Ethics does not require data sharing, but emphasizes transparency. Item 3.1.6 addresses the disclosing of previous usage of data.

The manuscript should identify the origin, and originality, of any proprietary, non-standard datasets used in the paper, for example, a primary dataset created by the Author using a survey. If the proprietary dataset has been used elsewhere by this or another Author, the manuscript should cite these other works, whether published or not. (item 3.1.6)

This item also addresses using and reusing of materials, making only the most subtle of changes (Honig et al., 2018; Kirkman & Chen, 2011), a practice bordering on self-plagiarism, or what Broad (1981) refers to pejoratively as "salami publications" for manuscripts that are strikingly similar to other papers in hypotheses, samples, methodologies and results-and often in authorship-all the while attempting to avoid textual overlap. When a dataset has been used in a previous study, regardless of whether a different theory is used to analyze the data, it must be made clear what value is added beyond earlier published work.

The reuse of data also creates challenges for the efficacy of the double-blind review, which requires authors to remove any information in a manuscript that might allow a reviewer to infer who the author is. Thus multiple uses of the same data can conflict with the requirement to cite earlier work. To address this dilemma, some journals require authors to submit in a separate document, to be seen only by the editor, an explanation of any similarities or differences in key variables between those in the submission and those in earlier published work using the same dataset (see Colquitt, 2013, for data overlap policies at AMI). For an example of how such a document looks, see the Journal of Applied Psychology submission guidelines drawn up by the American Psychological Association (APA).⁸ At present, *JIBS* does not formally require that such a document be joined to the submission package, but the IIBS editors do welcome such information and often request it during the review process.

New DART Requirements

The DART approach we propose builds on the AIB Journals Code of Ethics. We do not call for radical

changes. There are pressing legitimacy concerns that need to be addressed now; further down the road, other issues of concern to authors, publishers, editorial boards, universities, and research foundations will be addressed. *JIBS* DART policies are a work in progress.

We list below ways in which the *JIBS* editorial guidelines will be modified. The new approach will be posted on the *JIBS* website as part of the Statement of Editorial Policy, and also be made a part of the online submission system.

- 1. IIBS is the official publication of the Academy of International Business. Authors who wish to submit work for consideration are required to comply with the AIB Journals Code of Ethics. As spelled out in clauses 3.1.6, 3.5.2., and 3.5.3, at manuscript submission an author must inform the editor of (1) all prior use of any data, whether in part or whole, be it by a single author or with any number of co-authors, and (2) how the manuscript makes a contribution over and above any earlier published work in which the data were used - for example, through the use of different theories or methodologies. The required information may be provided in a cover letter for the editor's eyes only. Failure to provide such information may be grounds for manuscript rejection.
- 2. It will be normal practice for JIBS handling Editors to ask, on their own or at the request of a reviewer, for supplementary information such as research documents and raw output files although not the actual raw data. An editor might request additional descriptive statistics or robustness tests, programming codes used for running regressions, output files from statistical analysis software, or questionnaires in their original language. Authors will have the option of sharing the data and/or raw output files with only the editor and only if/when it is requested for a revision. In the rare case that the editor needs to delegate checking the data, a nonanonymous consulting editor could take on this role. Authors should disclose in their paper the original language in which research was undertaken (this specifically applies to qualitative research), and describe the steps they have taken to maintain its meaning when reporting it in English. Again, failure to comply may be grounds for manuscript rejection. Editors who



- request and receive access to an author's raw output files will not use this information in their own work or share it with others.
- 3. Authors will be required to include in their submission a data sharing "comply or explain" statement. There are a number of reasons to delay making data fully available, and reasons why full compliance is not achievable, or even desirable (as explained in detail below). Some reasons are spelled out in the statement, and it is possible to add others:
 - a. I will make the data fully available upon acceptance
 - b. I will make the data fully available after an embargo period (maximum 5 years)
 - c. I will not make the data fully available due
 - (i) Protection of personal data of research subjects
 - (ii) third-party property rights
 - (iii) national security
 - (iv) other reasons (please specify)

If an author has reasons to "opt out" other than i, ii, or iii, these will need to be spelled out. Assuming a manuscript is accepted for publication, the author will be asked to confirm the intentions declared in the statement filed at the time of submission. Each article published in *JIBS*, will be followed by an editorial note that informs readers of the extent to which data are available, and the reasons for less than full availability. Authors who make their data fully available will be asked to store these in a reputable data repository, and to provide information on how to access these data. Information on how to access these data. Information on how to access data, including its Digital Object Identifier (DOI), will appear below the article, and enable citations to the dataset.

In order to disseminate as widely as possible the above new approach, *JIBS* will sponsor professional development workshops and other activities at future annual AIB conferences.

What Other Journals Do

JIBS is introducing a new DART approach against the backdrop of growing concerns across the social sciences about the validity of research outcomes. Many of the top social sciences journals require the authors of articles accepted for publication to provide all data and the associated codes needed to reproduce tables and figures. Leading journals such as the *American Economic Review*, the *American Journal of Political Science*, and the *American Sociological Review* have made full transparency compulsory. The American Political Science Association adopted DART policies in 2012 (Lupia & Elman, 2014; Monroe, 2018). Many other journals require partial transparency. The *Journal of Applied Psychology*, for example, requires authors to make data available upon request. We provide in the "Appendix" a detailed overview of the DART policies of these and other journals.

Many of the top journals in economics, sociology and political science have instituted a "comply or explain" policy similar to the approach we propose above. Currently, most business and management journals require a description of the research process, but not the sharing of data (see Table 1). Neither the Journal of Management (JoM), nor the Strategic Management Journal (SMI) call for full transparency. JoM editors may ask for more detail during the review process. At SMJ, data sharing is entirely voluntary, although it is encouraged. The Journal of Marketing has no formal policy, but requires authors to back up results for 5 years after paper acceptance.⁹ The Academy of Management Journal (AMJ), to the best of our knowledge, has no explicit DART policy, although it requires adherence to the Academy of Management Code of Ethics and, along with many other top management journals, is a member of the Committee On Publication Ethics (COPE). 10 Finally, Administrative Science Quarterly, as far as we have been able to determine, does not have a DART policy, but does have an extensive Code of Ethics addressing the issue of transparency.

The picture that emerges is that top economics, sociology, psychology, and political science journals are leading the quest for more transparency. Business and management journals are engaged in a catching-up process, but struggle addressing the possible side effects of full disclosure. We discuss those below.

WHY WE NEED AN EDITORIAL POLICY CHANGE

Why does the transparency of research data need to be enhanced? Serious concerns about non-replicability of research findings have come to the fore in economics (e.g., Camerer et al., 2016), political science (e.g., Lupia & Elman, 2014), psychology

(e.g., Makel & Plucker, 2017), sociology (e.g., Freese & King, 2018), management (e.g., Aguinis, Ramani, & Alabduljader, 2018; Honig et al., 2018), strategy (e.g., Bettis, Helfat, & Shaver, 2016b) and entrepreneurship (Anderson, Wennberg, & McMullen, 2019). The authors we cite above advance two sets of arguments as to why lack of transparency and replicability should be of utmost concern to scholars. First, the creation of a cumulative body of scientific knowledge is based on continuous learning (Popper, 1962) and this requires the possibility of independent verification of scholarly work through re-testing hypotheses using the same or alternative data and methodologies. Replication as a quality-related criterion is especially relevant for quantitative research, but rarely applicable to qualitative research (Pratt et al., 2020). For qualitative research, the rich reporting of evidence inside the article can assist the reader in verifying quality. Second, stakeholder pressures on science in general, and on social sciences in particular, imply that transparency is - even more than in the past expected, and sometimes even legally imposed.

Enabling Cumulative Knowledge and Learning

Scientific knowledge is the result of a cumulative process of generating and connecting data gleaned from individual studies, and replication is an essential part of the cycle (e.g., Aguinis, Cascio & Ramani, 2017; Bettis, Ethiraj, Gambardella, Helfat, & Mitchell, 2016a; Tsang & Kwan, 1999; Walker, Brewer, Lee, Petrovsky, & van Witteloostuijn, 2019). Researchers are only able to build on prior work if they can fully understand the underlying empirical mechanics. Independent researchers with access to all data and codes necessary to rerun statistical analyses can both reproduce the results, and extend the analysis. Statistics and robustness tests can bolster validity (cf. Meyer, Beugelsdijk, & van Witteloostuijn, 2017), but empirical support from other researchers is even more powerful as the external validity of a line of research arises not from standalone studies, but from related ones (Rousseau, Manning, & Denyer, 2009; van Witteloostuijn, 2016). Full transparency is a powerful mechanism to reduce hypothesizing after results are known (HARKING), p-hacking and other questionable research practices that inflate levels of significance in empirical studies (Meyer et al., 2017; Nielsen, Eden, & Verbeke, 2020).

A lack of replication studies is a substantive concern in many fields, including business and management (see, e.g., Bettis et al., 2016; Honig

et al., 2018; van Witteloostuijn, 2016). We need to be able to assess the validity of past research to push forward with new. In fact, attempts at replication often fail to confirm widely accepted findings (Chang & Li, 2018; Duvendack, Palmer-Jones, & Reed, 2017), to the extent that when Aarts et al. (2015) looked at the replication of 100 studies published in 2008 in highly ranked psychology journals, they uncovered a confirmation rate of only about 39%. Similarly, Camerer et al. (2018) find a significant effect in the same direction of the original study for 62% of the studies, and the effect size of the replications is on average about 50% of the original effect size. Credibility of research results is fundamental to building a cumulative stock of knowledge, and by extension to developing theories that explain and predict phenomena that matter to individuals, firms, and governments.

Replication studies have recently received more attention, notably in psychology (e.g., Nosek, 2015). The *Strategic Management Journal* published a special issue on replication in 2017 to emphasize a shift in editorial policy in favor of replication studies (Bettis, Helfat, & Shaver, 2016). Lack of transparency also inhibits meta-analyses, which require clarity on how the original data have been handled and analyzed, including correlation matrices and descriptive statistics (although not the datasets themselves). Yet, many published articles do not include basic data information and so cannot be included in meta-analyses. The DART policies we propose should facilitate such studies.

Still another benefit of full transparency is that datasets can be used in training PhD students and junior researchers. Replication of high-quality studies can showcase best practice methodologies that aspiring researchers should emulate. Indeed, regardless of how experienced we are, we can all learn from such studies, and in the end the quality of manuscripts submitted – to *JIBS* and other journals – will be the better for it.

Legitimacy of Scholarship in Society

A significant part of contemporary academic research is at least partly funded by taxpayers. The academic community has an obligation to back its "product". The funders of research, public or private, want to know if their money has been well spent – if the research yielded trustworthy results and has practical implications. If research methods are flawed, the policy recommendations based on it will be too. Intellectual property is another issue. Some argue that the results of publicly funded



research should be public property, and that governments should impose rules and regulations to make sure that it is shared (Tenopir et al., 2011).

What about us? Despite the popular notion of the absent-minded, unselfish academic, we live in the real world like everyone else. There are conflicting demands on our time. We grapple with institutional and academic demands, and answer to the universities where we work. We have obligations toward students and fellow scholars, journal editorial boards and reviewers, journalists and politicians, not to forget practicing managers (Rynes, Colbert, & O'Boyle, 2018; Wiklund, Wright, & Zahra, 2018). Yes, there is pressure. The overwhelming majority manage to handle it. Some do not. There have been scandals, such as the manipulation of results by US food and nutrition researcher Brian Wansink (New York Times. 2018), and the fabrication of fake datasets by Dutch psychologist Diederik Stapel (New York Times, 2011). Papers by Ulrich Lichtenthaler, James E. Hunton, and David de Geest have been retracted by major business and management journals, inter alia because they exaggerated effect sizes or levels of significance. 11 An overview of these cases can be found on www.retractionwatch.com and its associated searchable database www.retractiondatabase. org. JIBS has not been pulled into any such scandal. That does not mean that it, or any other journal, should feel unconcerned. The issue must be confronted.

These legitimacy and transparency pressures are not uniformly spread across the globe, but are contingent on the institutional setting in which scholars operate (cf. DiMaggio & Powell, 1983). They arise from evolving country-specific norms as reflected in the guidelines of major research agencies. US, Canadian, British, Chinese, and Dutch scholars are responsible for more than 90 percent of all the articles that were published in *JIBS* between 1970 and 2016 (Verbeke & Calma, 2017: Table 2), so we summarize in Table 2 the DART policies of the major research agencies of those countries and of the European Union.¹²

The US National Science Foundation (US-NSF) and the European Research Council (ERC) of the European Union expect authors to make data available, but allow them to opt out. The German Research Foundation (DFG) and the Japanese Society for the Promotion of Sciences (JSPS) also allow opting out if done on the grounds of data protection rights or copyright. The Economic and Social Research Council (ESRC) of Britain and the

Organization for Scientific Research (NWO) of the Netherlands require that all data be made available. The Social Services and Humanities Research Council of Canada (SSHRC) and the National Natural Science Foundation (C-NSF) do not explicitly take a position on making data available, but rather call on authors to follow the standards set in their fields. The extent to which such funding agencies actually enforce what they publish on their website is hard to assess, but they do have different policies, which shows that DART requirements vary across the world.

The *JIBS* approach towards DART must be adaptable if it is to withstand differing and ever-changing environments. In the next section, we describe various legal, ethical, and organizational challenges posed by DART.

FULL DATA TRANSPARENCY CHALLENGES

Legal and Ethical Concerns

Full data transparency is an ideal of positive science, but as we acknowledge above, it is not always achievable, nor desirable. In particular, high-quality datasets need to be created in the first place, thus we need to look at what promotes – and what may undermine – that process. There are three stumbling blocks that come up again and again when IB scholars discuss DART (see Lupia & Alter, 2014, for similar observations in political science): (i) legal constraints, (ii) development sunk costs, and (iii) privacy and confidentiality.¹³

First, some datasets are created by researchers themselves, whereas other ones are in the public domain, and some are licensed. The owners of licensed datasets set the terms of use, which can range from being quite liberal to not allowing any sharing or disclosure of the original data. Data ownership is protected by intellectual property laws, meaning that the owners have the last word.

Next, the creation of a dataset is a long and time-consuming task. Some datasets are the joint effort of many persons in large organizations, and sometimes a single researcher or small group of them may devote years to the effort. A researcher may hope to recoup sunk costs by publishing several papers using their dataset knowing full well that the realization of a stream of research takes considerable time – the time to write papers, of course, but also the time it takes to have them go through the publishing process, involving revisions and possibly rejections and further revisions. The

0	
S	
\subseteq	
sponsor	
Ф	
\overline{s}	
Ū	
ä	
Š	
á	
₹	
ot	
0	
S	
زة	
_	
$\underline{\circ}$	
=	
Ō	
σ	
⊑	
e	
æ	
ā	
S	
S	
_	
ans	
trans	
tra	
a tra	
ta tra	
a tra	
ta tra	
ata tra	
ata tra	
Data tra	
2 Data tra	
e 2 Data tra	
le 2 Data tra	
ble 2 Data tra	
le 2 Data tra	
ble 2 Data tra	

Table 2 Data transparency poli	Data transparency policies of research sponsors	
Agency	Data repository	Data access
Canada—Social Sciences and Humanities Research Council (SSHRC)	"Each institution administering tri-agency funds is required to create an institutional research data management strategy." "Grant recipients are required to deposit into a recognized digital repository all digital research data, metadata and code that directly support the research conclusions in journal publications, pre-prints, and other research outputs that arise from agency-supported research." http://www.science.gc.ca/eic/site/063.nsf/eng/h_97610.html 25-may-	"The agencies encourage researchers to provide access to the data where ethical, legal, and commercial requirements allow, and in accordance with the standards of their disciplines." http://www.science.gc.ca/eic/site/063.nsf/eng/h_97610.html 25-may-2018
European Committee—European Research Council (ERC)	"The ERC expects data underlying publications by ERC grantees to be available [to the community]." "The ERC expects data underlying publications by ERC grantees to be available [to the community]." "Ultimately it is for the individual investigator to decide what data merit conservation and/or sharing" (p.5) (https://erc.europa.eu/sites/default/files/document/file/ERC_info_document-Open_Research_Data_and_Data_Management_Plans.pdf) 24-apr-2018 Pilot underway: Article 29.3 "beneficiaries must: (a) deposit in a research data repository and take measures to make it possible for third parties to access, mine, exploit, reproduce and disseminate – free of charge for any user – the [data]:" (p. 60) http://ec.europa.eu/research/participants/data/ref/h2020/mga/erc/h2020-mga-erc-multi_en.pdf 18-oct-2017 But authors can opt out of that pilot. "All ERC projects funded under the Work programmes 2017 and later participate by default in the Horizon 2020 Open Research Data (ORD) pilot [i.e., Article 29.3], with the possibility for grantees to opt out at any time." (p. 3)	underlying publications by ERC grantees to be available [to the community]." individual investigator to decide what data merit conservation and/or sharing" (p.5) sites/default/files/document/file/ERC_info_document-Open_Research_Data_and_Data_Management_Plans.pdf) 24-apr- deposit in a research data repository and take measures to make it possible for third parties to access, mine, exploit, ninate – free of charge for any user – the [data]:" (p. 60) earch/participants/data/ref/h2020/mga/erc/h2020-mga-erc-multi_en.pdf 18-oct-2017 t of that pilot. d under the Work programmes 2017 and later participate by default in the Horizon 2020 Open Research Data (ORD) pilot the possibility for grantees to opt out at any time." (p.3)
Germany—German Research Foundation (DFG)	(https://erc.europa.eu/sites/default/files/document-Dpen_Research_Data_and_Data_Management_Plans.pdf) 24-apr-2018 2018 "In accordance with the rules of good scientific practice, research data arcordance with the rules of good scientific practice, research data arcordance with the rules of good scientific practice, research data project does not conflict with the rights of third parties (in particular candinate infrastructure for at least 10 years." In accordance with the rules of good scientific practice, research data and appropriate project does not conflict with the rights of in particular candinates in a project does not conflict with the rights of particular candinates are sardied available as subjected on the rights of third parties (in particular project does not conflict with the rights of in particular project does not conflict with the rights of in particular project does not conflict with the rights of in particular project does not conflict with the rights of particular project does not conflict with the rights of particular project does not conflict with the rights of particular project does not conflict with the rights of in particular project does not conflict with the rights of particular project does not conflict with the rights of particular project does not conflict with the rights of in particular project does not conflict with the rights of particular project and a stage of processing in allows. It is the case, it must be ensured that access to data is still guaranteed when, through publication, the rights of use relating to research data are transferred to a third party, usually a publishing house." http://www.dfg.de/download/pdf/foerderung/antragstellung/forschungsdaten/guidelines_research_data.pdf 30-sep	nt-Open_Research_Data_and_Data_Management_Plans.pdf) 24-apr- "Assuming that the publication of research data from a DFG-funded project does not conflict with the rights of third parties (in particular data project does not conflict with the rights of third parties (in particular data protection or copyright), research data should be made accessible at a stage of processing that allows it to be usefully reused by third parties (raw data or structured data). To make sure this is the case, it must be ensured that access to the data is still guaranteed when, through publication, the rights of use relating to research data are transferred to a third party, usually a publishing house." http://www.dfg.de/download/pdf/foerderung/antragstellung/forschungsdaten/guidelines_research_data.pdf 30-sep-
Japan—Japanese Society for the Promotion of Science (JSPS) and Japan Science and Technology Agency (JST)	Japanese open access policy is derived from its position as member of the governing board of the Global Research Council (GRC), a forum that brings together the heads of science promoting agencies. GRC was launched based on a proposal by the United States NSF. "Open access may relate to all types of publicly funded research outputs wherever these outputs are meant to foster exchange and collaboration, open access does not relate to research which needs to be kept confidential due to privacy issues, business secrets or commercial interests". https://www.jsps.go.jp/j-grc/data/openaccess_j.pdf For an overview of institutional repositories, see https://www.nii.ac.jp/irp/en/list/ 18-jan-2019	"The researcher responsible for a research activity plan of a research project (Principal Investigator, hereinafter referred to as "PI") is required to preserve and manage research data of research projects (hereinafter referred to as "research data") appropriately based on the data management plan developed (hereinafter referred to as "DMP"). It is recommended that the underlying data for research publications be made openly available." https://www.jst.go.jp/EN/about/openscience/guideline_openscience_en.pdf 18-jan-2019

_
$\overline{}$
a
o,
₹
≈
=
_
Ħ
_
0
\sim
_
$\overline{}$
$\overline{}$
_
~
~ ~
e
<u>e</u>
e
ple
aple
ple
aple
aple

iable 2 (continued)		
Agency	Data repository	Data access
Netherlands—Netherlands Organization for Scientific Research (NWO)	"NWO only requests storage of reusable relevant data." "The data should preferably be archived at a national or international data repository. If that is not possible, the data should be archived by the institutional repository.[] Solely storing the data on computers or external media (e.g., USB flash drive, CD, DVD or hard disks) is in general too risky and will therefore, in principle, not be approved by NWO." https://www.nwo.nl/en/policies/open+science/data+management+	"Besides publications also research data that emerges from NWO-funded research should be as accessible and reusable as possible." https://www.nwo.nl/en/policies/open+science/data+management 22-nov-2018
United States—National Science Foundation (NSF)	Orlapter 22-i10v-2018 Not available https://www.nsf.gov/pubs/policydocs/pappg18_1/nsf18_1.pdf 29-jan- 2018	"4. Dissemination and sharing of research results b. Investigators are expected to share with other researchers, at no more than incremental cost and within a reasonable time, the primary data, samples, physical collections and other supporting materials created or gathered in the course of work under NSF grants." Source: https://www.nsf.gov/pubs/policydocs/pappg18_1/nsf18_1.pdf
United Kingdom—Economic and Social Research Council (ESRC)	"To make research data available in a timely manner means for the ESRC that research data resulting from ESRC grants are expected to be deposited with a responsible repository within 3 months of the grant ending." (p.3)	"All data created or repurposed during the lifetime of an ESRC grant must be made available for re-use or archiving within three months of the end of the grant." Source: https://esrc.ukri.org/funding/guidance-for-grant-holders/ research-data-policy/ march-2015 Not only encourages collection of re-usable data, but also their re-use. "Where research grant applicants plan to create new data as part of their ESRC-funded proposal, they must demonstrate that no suitable data are available for re-use. ESRC evaluate equally all proposals for funding on the basis of the scientific quality of the research proposal regardless whether the research is going to re-use data or collect new data."
	"The ESRC regards non-deposit of research data as an exception and reserves the right to request deposit where there is insufficient evidence to prevent data sharing, or to explain why sharing was not considered prior to data collection." (p. 4) Source: https://esrc.ukri.org/files/about-us/policies-and-standards/esrc-research-data-policy/ march-2015	https://esrc.ukri.org/files/about-us/policies-and-standards/esrc-research- data-policy/ march-2015

Dates refer to the last date a document was updated. Agencies are listed in alphabetical order.

investment is large, and it is risky. There is no guarantee that competing papers will not be published in the meantime. Still, as researchers they see the creation of a dataset as an investment in their career. They are likely to see a policy that calls for early sharing of data as detrimental to this career. There would be nothing to stop others from using the fruits of their labor to write competing articles. Indeed, a database developer might argue that full transparency beginning with the first paper actually increases the likelihood of competing papers. If DART were to undermine the hand-collection of data, this could hardly be qualified as scientific progress.

ethical considerations Moreover, compel researchers to ensure the privacy of those from whom they obtained data, and rightfully so. In particular, they may promise confidentiality to would-be survey respondents or to interviewees to obtain informed consent and to ensure unbiased responses. The obligation to protect vulnerable subjects is universally accepted by all scholars. And new and strict privacy laws, like those in the EU, explicitly impose this obligation upon the academic community. Monroe (2018) discusses the ethical ramifications of DART policies in political science, in particular the importance of confidentiality when working with refugees and with individuals subject to repressive regimes. Management researchers face similar ethical issues. The wide-ranging implications of sharing data include, just to name two of them, the possibility of repercussions for interviewees who divulge organizational information and the potential negative responses from the "accused" organizations and individuals when making public revelations of unethical behavior.

The legal constraints, sunk costs, and confidentiality concerns we describe above, are each associated in a different way with data commonly used in international business research. Lack of established processes and institutional support for data management is a shared concern of all scholars regardless of the types of data with which we work. We address these organizational challenges for different types of data commonly used in IB research.

1. Data downloaded from publicly available databases: Country-level data may be available from public databases such as those of the World Bank and the International Monetary Fund. In such cases, there are no substantive barriers to making data available, and a precise reference in

- the bibliography often suffices. Version number and date of retrieval must be specified, because databases of this kind are frequently updated.
- 2. Data hand collected and coded (including coded archival data and original survey data): Time, effort, and financial resources go into original data collection. In the case of publicly available data, selecting and entering data can be arduous if what is needed is not available in pre-processed electronic form. This is especially the case for primary data, either based on coding of documents (e.g., company annual reports) or generated by questionnaire survey. Collecting data incurs sunk costs, which researchers usually want to amortize through a series of related research projects. They therefore need mechanisms to prevent others from pre-empting them. There is no doubt that a first-mover advantage is critical because journals generally seek novelty and show little interest in publishing a second paper with the same analysis, even from the author who compiled the original dataset.

In addition, scholars often need to protect participating research subjects and make confidentiality promises when collecting survey data, not only to secure satisfactory response rates and unbiased responses, but also to satisfy ethics committees and the law. Similarly, confidentiality challenges arise in handling data the use of which has been expressly authorized, such as firm archival information, turnover and profit data, employee personal demographic information and so on. The need for transparency must therefore be balanced with ethical demands for confidentiality. Hence the best solution may be not to require the sharing of original field data, but to ask for sufficiently detailed documentation, and - if feasible - for an anonymized version of the dataset, to allow scrutiny of results by an acting editor or critical reviewers.

3. Data used under license from a commercial data provider: Many studies in finance, economics, and strategy use commercial databases such as those of Bureau van Dijk (e.g., Estrin, Meyer, & Pelletier, 2018; Useche, Miguelez, & Lissoni, 2019), Toyo Keizai (e.g., Delios & Beamish, 1999; Stallkamp et al., 2018) and WIND (a database of Chinese firms used by e.g., Liang, Ren, & Sun, 2015), to mention a few. In such cases, the copyright is held by a privately owned organization that provides access to its data by



subscription to authors' universities. Sharing the data with other scholars would violate that copyright and the contract under which the researchers or their university accessed the data. This said, while providing public access to the original data is not legally possible, scholars are usually not prohibited from sharing intermediate outputs related to their data processing, including downloading routines, descriptive statistics, software codes for regression analysis, and software output. The inclusion of descriptive statistics in a paper is established practice; but sharing other intermediate outputs of the research process is not yet common in our field. One of the main challenges with these types of databases is that many scholars using them have limited substantive knowledge on the firms in these databases. This absence of substantive knowledge of the authors, places an extra burden on editors and reviewers to ascertain that the results of hypothesis testing represent more than statistical noise.

- 4. Data available only on a remote computer: Some data providers do not allow datasets to be removed from their premises but permit researchers to analyze data on the organization's computers, while others have researchers submit their codes so that in-house staff can analyze data for them. This is done to preserve the confidentiality of the data. Providers who permit dataset access with these kinds of usage restrictions include the US Bureau of Economic Analysis (BEA) with data on, inter alia, the foreign operations of US multinational firms, which have been used by Berry & Kaul (2015) and by Feinberg & Gupta (2004). Other examples are a number of national banks, and national and Pan-European statistical offices e.g., publishers of the Community Innovation Survey used by Laursen & Salter (2006) and Schubert, Baier, and Rammer (2018), and the German IWH Research Institute with survey data on foreign affiliates used by Beugelsdijk & Jindra (2018) and Santangelo, Meyer, & Jindra (2016). In these cases, researchers cannot share raw data, because they do not have access to
- 5. Data generated by lab experiments: The number of experimental design-based studies in *JIBS* has increased in recent years. Some examples include Buckley, Devinney, & Louviere's (2007) study of location choices by managers, Magnusson, Westjohn, & Sirianni's (2018)

- experiment on stereotyping, and Allred, Findley, Nielson, & Sharman's (2017) field experiment on shell companies and auditing. The established standards for experimental studies have changed rapidly and the *JIBS* editors team endorses new standards established in neighboring fields, specifically pre-registration (Nosek et al., 2018), but does not impose them at this time. Allred, Findley, Nielson, & Sharman (2017: 599) write in their *JIBS* article that they have pre-registered their study at www.egap. org.
- 6. Data generated through qualitative research (e.g., interviews or observations): Scholars conducting qualitative research in particular experience significant tensions between the quest for transparency and their ethical obligations vis-à-vis research subjects (Pratt et al., 2020). Unlike much quantitative research using secondary data, qualitative field research is intrinsically built on the notion of confidentiality. In business and management, data collection is often done via interviews and other forms of direct interaction with employees, managers, and other firm stakeholders. A subject's full confidence in the researcher is integral to data reliability. Should a policy be imposed that requires that all data be made available, there is a real risk of response and selection biases in interviews, surveys, participation-observation sessions, and critical discourse analyses (e.g., Monroe, 2018; Pratt et al., 2020). The number of voluntary participants would also, in all likelihood, decline. In the end, it might make this kind of research impossible.

Research institutions scrutinize plans for collecting data from human subjects, and ethics review boards are charged with approving research protocols before data are collected. This practice has evolved rapidly in recent years, and is now mandated in many countries by funding agencies or by law. At the same time, 2018 changes at the EU level in data protection and privacy law compel European universities to develop a data management plan according to which institutional ethics committees normally require researchers to specify in detail the kind of data to be collected, where and how these will be obtained, analyzed and stored. Such a plan typically includes a description of interview protocols, as well as how informants are to be recruited, a description of possible risks and benefits to them, procedures that will safeguard

their privacy and confidentiality, the consent forms they will be asked to sign, and details on any compensation to be provided. The plan should also describe data retention practices.

Researchers working with qualitative field data thus face distinct challenges and should adopt best practices with respect to establishing the trustworthiness of their findings and the cumulative creation of knowledge (Pratt et al., 2020). As a basic requirement, scholars in the qualitative research tradition need to organize and describe the research process they have followed in a way that allows others to determine how conclusions have been derived (Cuervo-Cazurra, et al., 2016). However, qualitative research itself follows a variety of different research ontologies and processes. In IB, case studies have traditionally been most common, but other forms of qualitative work are gaining ground (Birkinshaw, Brannen, & Tung, 2011; Welch, Piekkari, Plakoyiannaki, & Paavilainen-Mäntymäki, 2011), e.g., ethnographic studies such as those by Moore (2011) and Westney & Van Maanen (2011). Authors who wish to submit to JIBS a manuscript with qualitative field data should normally have data collection and analysis procedures approved by the ethics board of their institution, and in the comply-or-explain statement, they should explain their data management decisions.

We think that international business and management research thrives in good part on its diversity of data and methodologies. At the same time, methodological diversity makes it challenging to develop an all-encompassing DART policy. We do not want policies that might stymie the creation of data, or that would discourage researchers from using a particular methodology or from addressing a particular topic.

Organizational Challenges

To implement a successful DART policy we need practical solutions to the issues we have discussed. Hell transparency requires user-friendly datasets in permanent repositories (Alvarez, Key, & Núñez, 2018), preferably with a Digital Object Identifier (DOI) name to the data. After all, datasets need to be found before they can be used. Authors need to select meaningful filenames, provide data in standard formats, and include variable definitions and codebooks. Storage too needs to be addressed. Traditionally, academic data have been stored on personal websites or on university servers, as illustrated by the examples given earlier, but

neither is a fully satisfactory, long-term solution as there are many reasons why a personal website might not be maintained. A change in the university affiliation of a researcher might also result in a loss of continuity.

Every published article is identified and linked to the web by a DOI. Similarly, a DOI can provide a stable and permanent link to data. Just as a journal article DOI is included in the formal bibliography, so should the data DOI - and not just among acknowledgements or in an endnote. This benefits researchers who develop a dataset, to the extent that articles associated by a bibliographic link to publicly available data receive more citations (Drachen & Ellegaard, 2016). Other researchers may then subsequently reference an article separate from the data to acknowledge a dual contribution. Datasets should be cited as in the following example with data from the late Raymond Vernon, Multinational Enterprise Project (published in 2015). https://doi.org/10.7910/DVN/27846. Harvard Dataverse, V5. It is important that in addition to author(s), year, database name, and DOI, the provider of access to the metadata would also be specified (in this example, Harvard Dataverse) and data version (especially in the case of data subject to change).

Many storage facilities provide DOIs (see https://repositoryfinder.datacite.org for an overview of 570 repositories in the humanities and social sciences as of August 1, 2019), but they are not all equally reliable. Elsevier uses its own system (www.elsevier.com/solutions/mendeley), while other journals, and individuals as well, have an alliance with the DRYAD Digital Repository (https://datadryad.org), or the Harvard Dataverse housed at the Harvard Institute for Quantitative Social Science (https://dataverse.org).

Web of Science, generally known as the source of journal impact factors, launched a Data Citation Index in 2012 to provide a single point of access to research data in repositories across disciplines and around the world. The storage provider recommends that authors rely on a data repository plan commonly used in their discipline. For business and management scholars publishing in a variety of business and management journals, it may be difficult to decide which one to use. Web of Science recommends that authors follow the recommendations of the journal in which they are publishing (Clarivate Analytics Web of Science, 2017). The Web of Science Data Citation Index provides a list of 21 storage providers that are



considered reliable, including the previously mentioned Dryad and Harvard Dataverse, but also Peking University's Open Research Data Platform and the UK Data Archive.

In addition to raw data, some authors share a code file that describes the entire process from that raw data through all intermediate steps, i.e., transformation of the data, treatment of outliers and alternative estimation techniques, to final regression results. Such guidance on code sharing, as well as a clear and detailed description of the statistical software used (as we set out above), helps with replication. The more clarity provided, the more effective DART policies.

DATA MANAGEMENT STEWARDSHIP

Data access and research transparency expectations in social science are rapidly evolving. There have been advances in infrastructure, i.e., the establishment of data repositories, and new protocols and standards on how data should be stored on them. Science foundations around the world have implemented a variety of DART requirements, and many initiatives at the national and supra-national level aim to provide individual researchers with the necessary tools and information to respond to the new opportunities. We have seen flagship journals in economics, sociology, psychology, and political science put in place full access requirements. Journals in business and management are catching up quickly in initiating and implementing DART policies. This editorial outlines a route forward for JIBS.

International business is multidisciplinary, characterized by a variety of research questions, epistemologies, and methodologies. This is reflected in the types of data used, including experimental, survey, interview, and archival data (both copyrighted and publicly available) in quantitative and qualitative form. This adds to the complexity of developing a DART policy. The new approach outlined in this editorial aims to enhance transparency while being flexible and method-sensitive in its implementation.

ACKNOWLEDGEMENTS

We thank Christina Elsinga and Joeri van Hugten for their support, and ten of our fellow *JIBS* Editors, as well as the AIB Executive Board for their constructive comments. We thank Alain Verbeke for his attention to detail.

NOTES

¹The DART acronym was coined by a group of political scientists associated with the American Political Science Association. For more information, we refer to https://www.dartstatement.org/, and Lupia and Elman (2014).

²https://documents.aib.msu.edu/policies/AIB-Journals-Code-of-Ethics-20180209.pdf.

³See http://dow.net.au/?page_id = 29 31-Oct-2019.

⁴See https://lauder.wharton.upenn.edu/resources-publications 31-Oct-2019.

⁵See https://www.ivey.uwo.ca/internationalbusiness/research/hasslefactor/31Oct-2019.

⁶Available at: https://resource-cms. springernature.com/springer-cms/rest/v1/content/ 13353644/data/v4 31Oct-2019.

⁷The Academy of Management discusses fine slicing of data in a series of Ethics of Research and Publishing videos: see the ethicist blog on https://aom.org/ethics.

⁸https://www.apa.org/pubs/journals/apl/data-transparency-appendix-example.aspx (jan 24 2019).

⁹Based on personal communication with Neil Morgan, editor of the *Journal of Marketing*.

¹⁰https://aom.org/About-AOM/AOM-Code-of-Ethics.aspx.

¹¹A retraction by Schminke and Ambrose from *Management and Organization Review* because of duplication, has been used by the editors and authors as an opportunity to discuss the reasons as to how this could have happened. The case now serves as a useful illustration of how transparency can be used as a learning opportunity (see Tsui & Lewin, 2014, for the discussion).

¹²Many of these agencies participate in the Global Research Council (GRC), a virtual organization comprised of the heads of the science and engineering funding agencies from around the world, including the Americas, Europe, Asia–Pacific, Sub-Saharan Africa, and the Middle East and Northern Africa. GRC was established in 2012 based on an initiative of the United States National Science Foundation. The GRC endorsed an action plan regarding open access research in 2013, stating that open access needs to be stimulated while taking institutional and national differences into account. See https://www.globalresearchcouncil.org/fileadmin//documents/GRC_Publications/grc_action_plan_open_access_FINAL.pdf 19-jan-2019.



¹³We introduced the discussion on data access and transparency at the *JIBS* editorial review board meeting at the Academy of International Business conference meeting in Minneapolis-St. Paul in 2018.

¹⁴In addition to the organizational aspects, there are legal issues that we do not discuss here, because our discussions with specialists have not given us clear guidance on the legal aspects of DART. The core of the legal issues concerns the physical storage of the data and the legal implications of the location of the server associated with the data repository. For example, under the US Patriot Act,

the US government has access to all data stored on a server located inside the US, even if the non-American (e.g. Chinese) author has used, for example a Dutch repository of which the servers are located in the United States.

¹⁵One institutionalized source of trust in data repositories, is provided by the CoreTrustSeal, a community based non-profit organization providing certification of data repositories operating under Dutch law (see https://www.coretrustseal.org).

REFERENCES

- Aarts, A. A., et al. 2015. Estimating the reproducibility of psychological science. *Science* 349(6251). https://doi.org/10.1126/science.aac4716.
- Aguinis, H., Cascio, W. F., & Ramani, R. S. 2017. Science's reproducibility and replicability crisis: International business is not immune. *Journal of International Business Studies*, 48: 653–663.
- Aguinis, H., Ramani, R. S., & Alabduljader, N. 2018. What you see is what you get? Enhancing methodological transparency in management research. *Academy of Management Annals*, 12: 83–110
- Allred, B. B., Findley, M. G., Nielson, D., & Sharman, J. C. 2017. Anonymous shell companies: A global audit study and field experiment in 176 countries. *Journal of International Business Studies*, 48(5): 596–619.
- Alvarez, R. M., Key, E. M., & Núñez, L. 2018. Research replications: practical considerations. *Political Science and Politics*, 51(2): 422–426.
- Anderson, B. S., Wennberg, K., & McMullen, J. S. 2019. Enhancing quantitative theory-testing entrepreneurship research. *Journal of Business Venturing*, 34(5): 105928.
- research. Journal of Business Venturing, 34(5): 105928.
 Berry, H., Guillen, M., & Zhou, N. 2010. An institutional approach to cross-national distance. Journal of International Business Studies, 41: 1460–1480.
- Berry, H., & Kaul, A. 2015. Global sourcing and foreign knowledge seeking. *Management Science*, 61(5): 1052–1071.
- Bettis, R. A., Ethiraj, S., Gambardella, A., Helfat, C. E., & Mitchell, W. 2016a. Creating repeatable cumulative knowledge in strategic management. *Strategic Management Journal*, 37(2): 257–261.
- Bettis, R. A., Helfat, C. E., & Shaver, M. J. 2016b. Special issue: replication in strategic management. *Strategic Management Journal*, 37(11): 2191–2388.
- Beugelsdijk, S., & Jindra, B. 2018. Product innovation and decision making autonomy in subsidiaries of multinational enterprises. *Journal of World Business*, 53: 529–539.
- Birkinshaw, J., Brannen, M. Y., & Tung, R. L. 2011. From a distance and generalizable to up close and grounded: Reclaiming a place for qualitative methods in international business research. *Journal of International Business Studies*, 42(5): 573–581.
- Bluhm, D. J., Harman, W., Lee, T. W., & Mitchell, T. R. 2011. Qualitative research in management: a decade of progress. *Journal of Management Studies*, 48(8): 1866–1891.
- Broad, W. J. 1981. The publishing game: getting more for less. *Science*, 211(4487): 1137–1139.
- Buckley, P., Devinney, T., & Louviere, J. J. 2007. Do managers behave the way theory suggests? A choice theoretic

- examination of foreign direct investment location decision making. *Journal of International Business Studies*, 38(7): 1069–1094.
- Camerer, C. F., et al. 2016. Evaluating Replicability of Laboratory Experiments in Economics. *Science*, 351(6280): 1433–1436.
- Camerer, C. F., et al. 2018. Evaluating the replicability of social science experiments in Nature and Science between 2010 and 2015. *Nature Human Behaviour*, 2: 637–644.
- Chang, A. C., & Li, P. 2018. Is Economics Research Replicable? Sixty Published Papers From Thirteen Journals Say "Often Not". *Critical Finance Review*. https://doi.org/10.1561/104.00000053.
- Clarivate Analytics Web of Science. 2017. Recommended practices to promote scholarly data citation and tracking. White Paper. Downloaded and accessed Dec, 1: 2018.
- Colquitt, J. A. 2013. Data overlap policies at AMJ. Academy of Management Journal, 56(2): 331–333.
- Cuervo-Cazurra, A., Andersson, U., Brannen, M.-Y., Nielsen, B. B., & Reuber, A. R. 2016. Can I trust your findings? Ruling our alternative explanations in international business research. *Journal of International Business Studies*, 47(8): 881–897.
- Delios, A., & Beamish, P. W. 1999. Ownership strategies of Japanese firms: transactional, institutional, and experience influences. *Strategic Management Journal*, 20: 915–933.
- DiMaggio, P. J., & Powell, W. W. 1983. The iron cage revisited: institutional isomorphism and collective rationality in organizational fields. *American Sociological Review*, 48(2): 147–160.
- Dow, D., & Karunaratna, A. 2006. Developing a multidimensional instrument to measure psychic distance stimuli. *Journal of International Business Studies*, 37(5): 578–602.
- Drachen, T. M., & Ellegaard, O. 2016. Sharing data increases citations. Liber quarterly Journal of the Association of European Research Libraries, 26(2): 67–82.
- Duvendack, M., Palmer-Jones, R., & Reed, W. R. 2017. What is meant by "Replication" and why does it encounter resistance in economics? *American Economic Review*, 107(5): 46–51.
- Eden, L. 2010. Letter from the editor in chief: scientists behaving badly. *Journal of International Business Studies*, 41(4): 561–566.
- Eden, L. 2018. Academy of International Business Code of Ethics; updated version of the journals code of ethics first published in 2010, https://aib.msu.edu/ethics/.
- Elman, C., & Kapiszewski, D. 2014. Data access and research transparency in the qualitative tradition. *Political Science and Politics*, 47(1): 43–47.
- Estrin, S., Meyer, K. E., & Pelletier, A. 2018. Emerging economy MNEs: How does home country munificence matter? *Journal of World Business*, 53(4): 514–528.



- Feinberg, S., & Gupta, A. K. 2004. Knowledge spillovers and the assignment of R&D responsibilities to foreign subsidiaries. Strategic Management Journal, 25: 823–845.
- Freese, J., & King, M. M. 2018. Institutionalizing transparency. Socius: Sociological Research for a Dynamic World, 4: 1–7.
- Honig, B., et al. 2018. Reflections on scientific misconduct in management: unfortunate incidents or a normative crisis? Academy of Management Perspectives, 32(4): 412–442.
- Kirkman, B. L., & Chen, G. 2011. Maximizing your data or data slicing? Recommendations for managing multiple submissions from the same dataset. Management and Organization Review, 7(3): 433-446.
- Laursen, K., & Salter, A. (2006). Open for innovation: The role of openness in explaining innovation performance among UK manufacturing firms. Strategic Management Journal, 27: 131-150.
- Lee, C. J., Sugimoto, C. R., Zhang, G., & Cronin, B. 2013. Bias in peer review. Journal of the American Society for Information Science and Technology, 64(1): 2–17.
- Liang, H., Ren, B., & Li, Sun S. 2015. An anatomy of state owned control in the globalization of state-owned enterprises. Journal of International Business Studies, 46(2): 223–240.
- Lupia, A., & Alter, G. 2014. Data access and research transparency in the quantitative tradition. Political Science and Politics, 47(1): 54–59.
- Lupia, A., & Elman, C. 2014. Openness in political science: Data access and research transparency: Introduction. PS: Political Science & Politics, 47(1): 19-42. https://doi.org/10.1017/ s1049096513001716.
- Magnusson, P., Westjohn, S. A., & Sirianni, N. J. 2018. Beyond country image favorability: How brand positioning via country personality stereotypes enhances brand evaluations. Journal of International Business Studies, 50(3): 318–338.
- Makel, M. C., & Plucker, J. A. (Eds.). 2017. Toward a more perfect psychology: Improving trust, accuracy, and transparency in research. Washington DC: American Psychological Association.
- Merton, R. K. 1973. The Sociology of Science: Theoretical and Empirical Investigations. Chicago: University of Chicago Press.
- Meyer, K., van Witteloostuijn, A., & Beugelsdijk, S. 2017. What is in a p? Reassessing best practices for conducting and reporting hypothesis-testing research. *Journal of International Business Studies*, 48(5): 535–551.
- Miguel, E., et al. 2014. Promoting transparency in social science research Science, 343: 30–31.
- Monroe, K. R. 2018. The rush to transparency: DA-RT and the potential dangers for qualitative research. Perspectives on Politics, 16(1): 141–148.

 Moore, F. 2011. Holistic ethnography: Studying the impact of
- multiple national identities on post-acquisition organizations. Journal of International Business Studies, 42(5): 654–671.
- New York Times. 2011. Fraud case seen as a red flag for psychology research, November 2, 2011, http://www. nytimes.com/2011/11/03/health/research/noted-dutchpsychologist-stapel-accused-of-research-fraud.html?_r= 1&ref=research. Retrieved 15 Jan 2017.
- New York Times, 2018. More evidence that nutrition studies don't always add up, September 29, 2018, https://www. nytimes.com/2018/09/29/sunday-review/cornell-food scientist-wansink-misconduct.html. Retrieved 2 Dec 2018.
- Nielsen, B., Eden, L., & Verbeke, A. 2020. Research methods in international business: challenges and advances. In B. Nielsen, L. Eden, & A. Verbeke (Eds.), Research methods in international business, vol. 7, pp. 3–41. London: JIBS special collections. Nosek, B. A. et al. 2015. Promoting an open research culture.
- Science 348(6242): 1422-1425.
- Nosek, B., Ebersole, C. R., Dehaven, A. C., & Mellor, D. T. 2018. The preregistration revolution. Proceedings of the National Academy of Sciences of the United States of America, 115(11): 2600-2606.

- Popper, K. 1962. Conjectures and Refutations: The Growth of Scientific Knowledge. New York: Basic Books
- Pratt, M. G., Kaplan, S., & Whittington, R. 2020. Editorial essay: The tumult over transparency: decoupling transparency from replication in establishing trustworthy qualitative research. Administrative Science Quarterly, 65(1): 1-19.
- Rousseau, D. M., Manning, J., & Denyer, D. 2009. Evidence in management and organizational science: Assembling the field's full weight of scientific knowledge through syntheses. Academy of Management Annals, 2(1): 475–515
- Rynes, S. L., Colbert, A. E., & O'Boyle, E. H. O. 2018. When the 'best available evidence' doesn't win: How doubt about science and scientists threaten the future of evidence-based management. Journal of Management, 44(8): 2995-3010.
- Santangelo, G. D., Meyer, K. E., & Jindra, B. 2016. MNE subsidiaries' outsourcing and insourcing of R&D: The role of local institutions. Global Strategy Journal, 6: 247-268.
- Schubert, T., Baier, E., & Rammer, C. 2018. Firm capabilities, technological dynamism and the internationalization of innovation: A behavioral approach. Journal of International Business Studies, 49: 70-95.
- Schotter, A., & Beamish, P. W. (2013). The Hassle Factor: An Explanation for Managerial Location Shunning. Journal of International Business Studies, 44(5): 521–544.
- Schwartz, S. H. 2006. A theory of cultural value orientations: Explication and applications. Comparative Sociology, 5: 137-182.
- Stallkamp, M., Pinkham, B. C., Schotter, A. P. J., & Buchel, O. 2018. Core or periphery? The effects of country-of-origin agglomerations on the within country expansion of MNEs. Journal of International Business Studies, 49: 942–966.
- Tsang, E. W., & Kwan, K. (1999). Replication and theory development in organizational science: A critical realist perspective. Academy of Management Review, 24(4): 759-780.
- Tenopir, C., et al. 2011. Data sharing by scientists: practices and perceptions. PlosOne, 6(6): e21101. https://doi.org/10.1371/ ournal.pone.0021101
- Tsui, A. S., & Lewin, A. Y. 2014. Retraction statement for "Ethics and Integrity of the Publishing process: Myths, facts and a Roadmap" by Marshall Schminke and Maureen L. Ambrose. Management and Organization Review, 10(1): 157–162.
- Useche, D., Miguelez, E., & Lissoni, F. 2019. Highly skilled and well connected: Migrant inventors in cross-border M&As. Journal of International Business Studies. https://doi.org/10. 1057/s41267-018-0203-3
- van Witteloostuijn, A. 2016. What happened to Popperian falsification? Publishing neutral and negative findings: Moving away from biased publication practices. Cross-Cultural and Strategic Management, 23: 481–508. (formerly known as Cross-Cultural Management).
- Verbeke, A., & Calma, A. 2017. Footnotes on JIBS 1970-2016. Journal of International Business Studies, 48(9): 1037–1044.
- Walker, R. M., Brewer, G. A., Lee, M. J., Petrovsky, N., & van Witteloostuijn, A. 2019. Best practice recommendations for replicating experiments in Public Administration. Journal of Public Administration Research and Theory, 29(4): 609–626.
- Welch, C., Piekkari, R., Plakoyiannaki, E., & Paavilainen-Mäntymäki, E. 2011. Theorising from case studies: Towards a pluralist future for international business research. Journal of International Business Studies, 42(5): 740–761.
- Westney, E., & Van Maanen, J. 2011. The casual ethnography of the executive suite. *Journal of International Business Studies*, 42(5): 602-607.
- Wiklund, J., Wright, M., & Zahra, S. A. 2018. Conquering relevance: Entrepreneurship research's grand challenge. Entrepreneurship Theory and Practice, 43(3): 419–436.



APPENDIX: OVERVIEW OF SOCIAL SCIENCE JOURNAL POLICIES ON DATA TRANSPARENCY AND REPLICABILITY

Journal	Transparency and replicability policy	Nature of the policy
American Economic Review (AER)	"It is the policy of the American Economic Association to publish papers only if the data used in the analysis are clearly and precisely documented and are readily available to any researcher for purposes of replication." "Authors of accepted papers that contain empirical work, simulations, or experimental work must provide, prior to publication, the data, programs, and other details of the computations sufficient to permit replication. These will be posted on the AEA website. The Editor should be notified at the time of submission if the data used in a paper are proprietary or if, for some other reason, the requirements above cannot be met." "For experimental papers, we have a more detailed policy, including requirements for submitted papers as well as accepted papers. We normally expect authors of experimental articles to supply the following supplementary materials (any exceptions to this policy should be requested at the time of submission): the original instructions[] information about subject eligibility or selection [] any computer programs, configuration files, or scripts used[] the raw data from the experiment". Source: https://www.aeaweb.org/journals/aer/about-aer/editorial-policy and betters//www.aeaweb.org/journals/aer/about-aer/editorial-policy and betters//www.aeaweb.org/journals/aer/about-aer/editorial-policy/data.aer/editorial-policy/data.aer/about-aer/editorial-policy/data.aer/editorial-policy/data.aer/about-aer/editorial-policy/data.aer/editorial-policy/data.aer/editorial-policy/data.aer/editorial-policy/data.aer/edit	Compulsory and full access
American Journal of Political Science (AJPS) See also Quarterly Journal of Political Science for a similar policy	policy and https://www.aeaweb.org/journals/policies/data-availability-policy "The corresponding author of a manuscript that is accepted for publication in the American Journal of Political Science must provide replication materials that are sufficient to enable interested researchers to reproduce all of the analytic results that are reported in the text and supporting materials." "If a manuscript is tentatively accepted for publication, the replication materials will be verified to make sure that they do, in fact, reproduce all results that appear in the article and immediate supporting materials before final acceptance and publication.[] If there are limitations or restrictions on data access or if an exception to the general replication policy will be requested for any reason, then the author should contact the AJPS Editor to explain the situation before submitting the manuscript. Exceptions to the AJPS replication policy will be granted at the discretion of the Editor." Source: https://ajps.org/guidelines-for-manuscripts and https://ajps.	Compulsory and full access
American Political Science Review (APSR)	org/ajps-replication-policy/ "Researchers have an ethical responsibility to facilitate the validation of their evidence-based claim so that their work can be fully evaluated, including through reproduction and replication when appropriate, or b providing sufficient evidence and material to permit others to develop their own interpretation. This involves providing access to the data or evidence underlying their analysis, and achieving transparency in both the production and analysis of evidence All relevant materials must be made available." Source: http://www.apsanet.org/APSR-Submission-Guidelines	Compulsory and full access



(Continued)

Journal	Transparency and replicability policy	Nature of the policy
American Sociological Review (ASR)	"All persons who publish in ASA journals are required to abide by ASA guidelines and ethics codes regarding plagiarism and other ethical issues. This requirement includes adhering to ASA's stated policy on data-sharing: Sociologists make their data available after completion of the project or its major publications, except where proprietary agreements with employers, contractors, or clients preclude such accessibility or when it is impossible to share data and protect the confidentiality of the data or the anonymity of research participants (e.g., raw field notes or detailed information from ethnographic interviews) (ASA Code of Ethics, 1997)." Source: https://uk.sagepub.com/en-gb/eur/american-sociological-	Compulsory and Full access
International Organization (IO) See also International Studies Quarterly for a similar policy	review/journal201969#submission-guidelines "At the time of final submission of accepted papers, IO requires authors of papers using quantitative data to provide the data set and accompanying command files to reproduce tables presented in the paper and any other specifications referenced in it (for example, results verbally described in the main text or in footnotes). Quantitative results will be replicated by IO staff and the paper will not begin the publication process until all results are confirmed. You do not need to send quantitative data until your article is accepted." Source: https://www.cambridge.org/core/journals/international-organization/information/instructions-contributors	Compulsory and full access
Journal of Applied Psychology (JAP)	"Authors are encouraged to make their data, materials, and/or preregistration plans and analyses publicly available, if possible, by providing a link to a third-party repository, such as APA's own repository, in the author note and including the data citation in your reference list. Making your data and materials publicly available can increase the impact of your research, enabling future researchers to incorporate your work in model testing, replication projects, and meta-analyses, in addition to increasing the transparency of your research. APA's data sharing policy does not require public posting, so it is at your discretion to decide what is best for your project in terms of public data, materials, and conditions on their use. Please note that APA policy does require authors to make their data available to other researchers upon request, per the APA Ethical Principles of Psychologists and Code of Conduct, as detailed in the section on Sharing Research Data for Verification." Source: https://www.apa.org/pubs/journals/apl/?tab=4	Upon request and full access
Journal of Finance (JF)	"Authors of accepted papers that contain empirical analysis, simulations, numerical computations, or experimental work must provide the programs needed for replication to the <i>Journal of Finance</i> . Authors are also encouraged to include the data along with the source code if public posting of the data does not violate copyright or confidentiality agreements. If the authors choose not to provide the data, they must include a pseudo-data set that illustrates the format of the files read by the code so that users can understand and check the functionality of the code."[] Absent an exception granted by the Editor, accepted papers will be published only after the programs are received by the <i>Journal</i> , and code will be made available on the <i>Journal</i> website. [] If an exemption is granted, it will be noted on the published paper that the authors have been granted an exemption from the code sharing policy." Source: https://c.ymcdn.com/sites/afajof.site-ym.com/resource/resmgr/files/Submission_docs/CodePolicy.pdf	Compulsory and partial access



(Continued)

Journal	Transparency and replicability policy	Nature of the policy
Journal of International Economics (JIE)	"This journal requires and enables you to share data that supports your research publication where appropriate, and enables you to interlink the data with your published articles. Research data refers to the results of observations or experimentation that validate research findings. To facilitate reproducibility and data reuse, this journal also encourages you to share your software, code, models, algorithms, protocols, methods and other useful materials related to the project." Source: https://www.elsevier.com/journals/journal-of-international-	Voluntary
Journal of Politics (JOP)	economics/0022-1996?generatepdf=true "Authors of quantitative papers must submit their data and all associated replication files to the JOP Dataverse.[] A final decision of "Accept" will not be provided until all relevant materials are submitted to Dataverse." Source: http://www.thejournalofpolitics.org/conditional-accepts.html	Compulsory and full access

This table was developed based on an assessment of these journals in November 2018. Journals are listed in alphabetical order.

ABOUT THE AUTHORS

Sjoerd Beugelsdijk is a Professor of International Business at the University of Groningen, the Netherlands. He earned his Ph.D. at Tilburg University and explores how cultural and institutional diversity affect international business. He is currently serving as Reviewing Editor for *JIBS*. In 2019, he received the *JIBS* Silver Medal for his contributions to the field. He is a Fellow of the Academy of International Business (AIB).

Arjen van Witteloostuijn is a Full Professor in Business and Economics at the Vrije Universiteit Amsterdam, Antwerp Management School and the University of Antwerp. He has published over 190 articles in internationally refereed journals, including Academy of Management Journal, Academy of Management Review, American Journal of Political Science, American Journal of Sociology, American

Sociological Review, Journal of Business Venturing, Journal of Management, Journal of Organizational Behavior, Journal of Public Administration Research and Theory, Organization Science, and Strategic Management Journal. He is an Area Editor of the Journal of International Business Studies and a Fellow of the Academy of International Business (AIB).

Klaus E. Meyer (Ph.D., London Business School) is an international business scholar focusing on the strategies of multinational enterprises in emerging economies. He is a Professor of International Business at Ivey Business School, Canada. He has published over 80 articles in leading scholarly journals and nine books. He is a Fellow of the Academy of International Business (AIB) and a recipient of the *JIBS* Decade Award and the *JIBS* Gold Medal.

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.