Collectively Exercising the Right of Access: Individual Effort, Societal Effect

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Abstract

The debate about how to govern personal data has intensified in recent years. The European Union's General Data Protection Regulation, which comes into effect in 2018, relies on transparency mechanisms codified through obligations for organizations and citizen rights. While some of these rights have existed for decades, their effectiveness is rarely tested in practice. This paper reports on the exercise of the so-called right of access, which gives citizens the right to get access to their personal data. We study this by working with participants-citizens for whom the law is written—who collectively sent over a hundred data access requests and shared the responses with us. We analyze the replies to the access requests, as well as the participant's evaluation of them. We find that non-compliance with the law's obligations is widespread. Participants were critical of many responses, though they also reported a large variation in quality. They did not find them effective for getting transparency into the processing of their own personal data. We did find a way forward emerging from their responses, namely by looking at the requests as a collective endeavor, rather than an individual one. Comparing the responses to similar access requests creates a context to judge the quality of a reply and the lawfulness of the data practices it reveals. Moreover, collective use of the right of access can help shift the power imbalance between individual citizens and organizations in favor of the citizen, which may incentivize organizations to deal with data in a more transparent way.

1. Introduction

Personal data is one of the main assets in the new data economy. As a by-product of the growth of internet-enabled communication, computing power and storage capabilities, the amount of personal data that is in being collected, processed and stored is growing fast. The increase in the use of personal data provides potential economic and academic benefits, but also entails risks with regards to power and privacy (Zuboff, 2015). This raises new questions as to how this new data economy should be governed (Bennett & Raab, 2017; Economist, 2017).

The European Union (EU) and the United States (US) have different approaches toward the question of how to govern personal data, though many elements seem similar and there is a partially shared genealogy (Hustinx, 2013; Schwartz, 2013). Recent events, such as the fall of safe harbor agreement and the continued questioning of EU-US Privacy Shield agreement, show that the differences are not just theoretical. While the US overall has a regime founded in consumer

protection law starting from the principle that data practices are allowed as long as they have a legal ground, the EU is taking a more cautionary approach with more focus on protecting citizen's rights, by approaching privacy and data protection as a fundamental right. As part of this fundamental rights approach, Europe is focusing more on safeguarding citizen rights through principles of transparency and individual control. Transparency is especially important, as it is one of the preconditions for the ability to exert control with respect to the processing of personal data.

The European Union has had a unified data protection framework since 1995. In light of the developments sketched above and with the aim of providing better protection of its citizens, a new data protection regulation is going into force in the EU in 2018. While there are some important additions to the data regulation framework, the central core of the framework remains essentially unchanged. This happens while we do not even know if the elements of this core function, and while some elements like informed consent, have been shown to be largely dysfunctional (e.g., Zuiderveen Borgesius, 2015).¹

The right of access is one of the key legal provisions in this framework, which should provide transparency to citizens. It gives organizations an obligation to, upon request, provide citizens with the personal data held on them, the source of this data, the purpose of this data, and who this data is shared with (we discuss these provisions in more detail in Section 2). The right of access intends to enable citizens to verify the lawfulness of the data practices of an organization, after this processing has already started. So, in theory, this right should enable citizens to protect their rights related to the use of their personal data.

This paper addresses the following key question: To what extent does the exercise of the right of access meet its objective in practice? Does it provide meaningful actual transparency to citizens?

We answer this question by recruiting participants to send data access requests and share the replies with us. We then first analyze the replies to the access requests from the point of view of their compliance with the law. Next we collect the views of the study participants, the citizens for whom the law is written, and ask them to rate the replies that they receive, what they expect from the law, and how they evaluate the right of access after having used it. Lastly, we reflect on these findings and explore under what conditions the right of access might contribute to transparency and ensuring the lawfulness of data processing. We conclude that a much deeper story emerges through perceiving the requests as a collective endeavor.

Our paper contributes to a considerable amount of scholarly work that deals with the different data protection regulation by legal scholars (e.g. Galetta & De Hert, 2015), and governance scholars (e.g. Bennett and Raab, 2017), by providing empirical evidence to analysis that often deals with abstract principles. There have been a few small-scale studies in the Netherlands of exercising access requests in practice, such as the studies by Van Breda & Kronenburg (2016) and Hoepman (2011). We extend these works by sending requests to a larger set of organizations, sending multiple requests to the same organization, sending follow ups, and sending requests for specific types of data. The most similar study to ours has been performed by Norris, De Hert, L'Hoiry, & Galetta (2017) who have conducted the first major multi-country empirical study of the right of access, sending and monitoring 184 access requests. To some extent, our work corroborates their findings,

¹ For a critical analysis on the functioning of notice regulation in the US see (Bruening & Culnan, 2015)

albeit in another country, as their study did not include the Netherlands. Our main methodological contribution is the inclusion of non-researcher citizen-participants in gathering the data, as well as in the interpretation of and reflection on the replies.

2. Right of Access

In order to empower its citizens, European lawmakers have created the so called right of access in the Data Protection Directive (DPD). This gives citizens the right to obtain information about personal data that is processed relating to them. In the Netherlands, the DPD has been codified into law via de "Wet Bescherming Persoonsgegevens" (Dutch Personal Data Protection Act). Article 35 of that act defines the right of access as follows:

"1. The data subject may request the controller without constraint and at reasonable intervals to notify him about whether personal data relating to him are being processed. The controller will notify the data subject about whether or not his personal data are being processed in writing within four weeks.

2. Where such data are being processed, the notification will contain a full summary thereof in an intelligible form, a description of the purpose(s) of the processing, the categories of data concerned and the recipients or categories of recipients, as well as the available information on the source of the data.

3. Before a controller provides the notification referred to in subsection 1, against which a third party is likely to object, he will give that third party the opportunity to express his views where the notification contains data relating to him, unless this proves impossible or involves a disproportionate effort.

4. Upon request, the controller will provide knowledge of the logic involved in any automatic processing of data concerning him."

In this research, almost all data access requests fall under the scope of this Dutch law. If the organization is located in another European country the national implementation of the DPD applies. In most important aspects, these implementations are very similar. Differences can be found in attributes like the maximum time allowed for the response (e.g. 4 weeks in the Dutch law and 40 days in the UK law). In 2018, when the new General Data Protection Regulation (GDPR) will come into effect, these differences will be a thing of the past.²

The data protection regulation consists of a set of different obligations to data controllers and rights for data subjects. The goals of the different provisions overlap. With regards to transparency, there are rules that require *a priori* information provision directly to the data subject (art. 13) and to the DPA (art. 30). There are also rules that require information provision *a posteriori* (art.15) via the right of access. A key difference between the two types of transparency is that *a priori* transparency

² The DPD will be replaced by the GDPR effective May 2018. According to De Hert and Papakonstantinou (2016) the GDPR is not substantially different than current law with regards to the right of access. Two major motivations for the introduction of the GDPR were harmonization and increased protection for citizens in an environment of intense technological change. Harmonization is achieved by the fact that the regulation will be directly applicable in all member states, whereas the DPD applied only through its implementations into respective national laws. Stronger data protection for citizens is pursued by, among other things, increased fines, which may increase the relevance of our work.

can only describe data practices in abstract terms, it will describe the categories of data that are being processed more or less precisely. A statement may for example say that an organization collects names but can only say that it recorded the name Adam after processing started. Therefore, *A posteriori* transparency can be used to check the accuracy of the processing while *a priori* information provision cannot. We think that this specificity is also needed to verify the lawfulness of the processing. People have a better understanding of processes when they are observable in concrete terms.

The text of the law is rather unclear in this respect saying that "a full summary of the data" and "the recipients *or* categories of recipients" have to be provided.³ This seems to leave room for an interpretation that allows for stating categories as an acceptable reply (Van Breda & Kronenburg, 2016). However, the Dutch DPA (2007) has taken the position that the reply should include a full reproduction of the data, and this position has been accepted by the courts.⁴

The transparency related rights and obligations should help the data subject, the right of access enables data subjects to check the quality of their personal data and the lawfulness of the processing. Recital 41 of the DPD defines it as follows: "... any person must be able to exercise the right of access to data relating to him which are being processed, in order to verify in particular the accuracy of the data and the lawfulness of the processing"⁵. De Hert and Gutwirth (2006) explain that the rationale for the data protection regulation is "to promote meaningful public accountability, and provide data subjects with an opportunity to contest inaccurate or abusive record holding practices".

Notwithstanding these legal provisions, recent surveys show that European citizens, as elsewhere, do not feel that they have transparency and control over the use of their personal data. And while the regulatory framework for dealing with the rapid increase of the collection and use of personal data relies heavily on citizen empowerment, very little is known about the practical effectiveness of the legal provisions, such as the right of access, that should guarantee this empowerment (OECD, 2013, p34.).

3. Research Method

To find out how the right of access functions in practice, we need to observe how organizations answer data access requests in practice, compared to the criteria formulated in the law, and

³ In the GDPR the first ambiguity seems to be solved as the law says The data subject shall have.... access to the personal data.... *and* the following information: (b) the categories of personal data concerned. The ambiguity with regards to the recipients however remains as the law still states ... (c) The recipients or categories of recipient ...

⁴ Dutch DPA (2007) p.39 "Pursuant to Article 35 of the Wbp, a report must be a complete and clear overview of the data that are being processed in relation to a data subject. This must not be a description or summary of the data, but a complete reproduction. If the report were incomplete, the data subject would of course be insufficiently able to exercise his or her rights under the terms of the Wbp. This interpretation was confirmed in mid-2007 by the Supreme Court in the judgments on the Dexia case, Supreme Court, 29 June 2007, LJN: AZ4663 and Supreme Court, 29 June 2007, LJN: AZ4664"

⁵ Similarly, recital 63 of the GDPR does the same it reads: "A data subject should have the right of access to personal data which have been collected concerning him or her, and to exercise that right easily and at reasonable intervals, in order to be aware of, and verify, the lawfulness of the processing."

furthermore evaluate the experience of citizens using of the right. In order to do so, we recruit participants to send data access requests, and interview them about their experience during the process, as shall be explained in this section.

3.1. Data Collection

The data used in this study all derives from actual replies from organizations to right of access requests letters sent by seven individuals—two of the authors and five participants. Initially, to gain a basic understanding of the process involved, the authors sent approximately 35 access requests. At a later stage, eight participants connected to the authors but not data governance researchers were invited to participate in the study, five of which completed it.

Potential participants received documentation explaining the basics of the legal right under investigation, the purpose of the study, a template of the access request letter, a list for choosing the organizations to send a data access request to, and a consent form. Participants took part in a semi-structured intake interview, and were asked about their expectations of access requests, their attitudes towards the use of personal data in society, and their motivation for participation. This interview serves as a reference for the subjective judgment of the effectiveness of the access requests later on.

Participants were next tasked to choose at least ten organizations to send data access requests—with a suggestion of five that deliver public services (e.g., public transport and education), three dominantly online companies (e.g., online shops and internet service providers), and two miscellaneous. The suggestions were to ensure we collect multiple data points on similar organizations, while giving participants the freedom to engage actively and with personal interest.

Subsequently, we helped the participants draft the data access requests, based on a fixed template. The standard template was a slightly adapted version of the template that the Dutch Data Protection Authority (DPA) offers on its website.⁶ One participant used the standard letters provided by the Dutch digital rights organization Bits of Freedom, which while worded slightly differently, contains the same elements. This includes a request for (i) an overview of the data being processed, if any, (ii) an explanation of the purposes of collection, (iii) with whom data has been shared, and (iv) the origin of the data. In 14 cases an English letter was sent, based on a similar template provided by the British DPA, the Information Commissioner's Officer (ICO). In 16 cases the letter was thereafter individualized, requesting specific types of data a participant wished to receive (e.g. internet traffic, or data related to a specific flight). The postal address of the target organization was also added to the template. This address was found by looking for it in the organization's privacy policy, and if it was not provided, the address provided in Bits of Freedom's online database, or the general address of the organization was used. As a means of identification by the receiving organization, a copy of an ID document was added.

Overall, the 7 individuals sent a total of 106 access requests to organizations in different sectors, as shown in Table 1. Of these, 65 requests were sent to public organizations and 41 to private

⁶ We add a subject line, a paragraph explaining why the citizen requested the data, and a paragraph explaining that we add a copy of a passport in order for the organization to be able to verify the identity.

organizations. Most requests were sent by letter (85), but e-mail (15) and web-forms (6) were also used. The majority of the target organizations (92) were located in the Netherlands.

In order to check the progress on the data access requests, and to find out if there were any problems, we had regular (often weekly) contact with the participants. If after four weeks—the maximum time allowed by the law—a reply was not received, participants were asked to send reminders to the organization, indicating they expected a swift answer and referring to the legal deadline. And again, two weeks later, a second reminder suggesting the possibility to seek recourse via the DPA if a reply was not received. With regards to reminders, 47 first reminders and 21 second reminders were sent, while none of the participants filed a complaint with the DPA for non-response.

When participants received a reply, they were asked to share it with us. From these responses we recorded basic process information, such as response time, numbers of reminder sent, and how the response was received (regular post, registered post or e-mail). We noted if the responses contained answers to the different sub-questions asked—where the data comes from, with whom it is shared, and why it has been collected—and if these answers were generic or specific. We also asked the participants to evaluate the responses on completeness, communication style, and accuracy of the data received (to the extent that it was provided). They could also write down general remarks.

Finally, after all data access requests were processed, participants were interviewed again, and asked to reflect on the effectiveness of the right of access and their participation in the research.

Sector	Example organizations	Access Requests Sent	Target Organizations	
Education	Delft University of Technology, Design Academy Eindhoven, Gymnasium Haganum (A High School).	7	5	
Finance	ABN, Mastercard, OHRA	6	5	
Government	Tax Authority, Municipalities, UWV	30	19	
Platforms	Mi, Skype, Spotify	10	9	
Retail	Happy Socks, Ikea, Bol.com	8	6	
Telecom	KPN, T-Mobile, Ziggo	8	6	
Transport	Car2Go, NS, Amsterdam Airport Schiphol	20	7	
Utilities	Eneco, Energiedirect, PostNL	7	7	
Other	NGOs, Art institutions, general practitioners	10	10	

Table 1 - Number of data access requests sent to different sectors

3.2. Data Analysis

As we have discussed, the right of access aims to bring transparency to citizens about the way in which organizations use their personal data. The transparency to be achieved is, however, not defined precisely or uniformly in the law, case law, or scientific literature.

We operationalized transparency in two ways. The first way was to compare the access responses to the formal legal criteria. The law and related case law specify several mandatory elements in response to an access request (see section 2 "Right of Access"). There needs to be a reply to an access request within a number of weeks (four in Dutch law), and the reply needs to include the categories of data that an organization processes, the actual data that is processed, an explanation of the reasons for which it is processed and an explanation of how the organization received the data, and if, and with whom, the data was shared. We checked the replies for these elements, and whether they were given in general or specific form.

Our second way is to let citizens, for whom the law is intended, judge whether the responses gave sufficient insight into the lawfulness and accuracy of the data processing, as the law intends. This, as was described in Section 3.1, was done by asking the participants to grade each access request and response, plus the intake and final interviews.

3.3. Ethical Considerations

Before involving participants, we sought and received approval from the Delft University of Technology's Human Research Ethics Committee. We will briefly discuss the most important considerations.

Our research requires the participants to share replies to their access requests with us, which by their nature might contain highly sensitive personal information. One principle of ethical data sharing is informed consent. We thus informed participants in detail about the setup of the experimental design, and strived for open communications and an atmosphere that makes it easy for participants to not share their data. Participants can at any point and for any reason pull back from the research. Moreover, keeping the data safe is a key concern. The original response letters were held by the participants themselves, and we stored a digital copy on an encrypted university server, accessible to two of the researchers, and the individual participants only.

Another consideration is that replying to a data access request, if taken seriously, may take much time for an organization. Some organizations we talked to have reported that they have been previously targeted by public data access request campaigns and have experienced this almost as a 'distributed denial of service attack'. While acknowledging this concern, given that organizations have a legal obligation to reply to access requests, and given the importance of investigating access rights by the actual application of the right (versus investigation by proxy), we deem our method acceptable. For larger size research with participants, however, some form of load balancing with regards to the queried organizations in the research design is needed. Finally, since our research is not intended as an attack on any organization, and especially not on any individual within an organizations and never mention their names.

4. Legal Compliance

We will now present our findings of the extent in which the replies to the access requests complied with the law. In 4.1 we look at the most basic questions: was there a reply at all, and how long did it take for organizations to reply. In 4.2 and 4.3, we describe the extent to which the replies were

complete. In 4.4 we discuss how responses to specific requests and follow up questions were handled, and patterns that can be observed by matching replies to similar requests.

4.1. Is Anybody Listening?

Approximately 80 percent of the data access requests where eventually answered.⁷ About half were answered within the four weeks stipulated under the Dutch law and, as the response time histogram in Figure 1 shows, a relatively large proportion of the replies return in the fourth and fifth week after the request, around the legal deadline. Coolblue, a web shop, responded to a request by letter in two days with data. A small proportion (7) of organizations replied within a week, but most of these responses did not contain the requested data.⁸ At the other end of the spectrum, 34 organizations answered late, 21 answered after one reminder, and 9 after two reminders were sent.

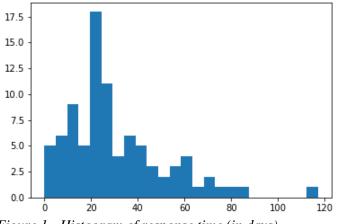


Figure 1 - Histogram of response time (in days)

Figure 2 provides an overview of the replies received, and the department that has sent the reply. Approximately 33% of the responses included user data and an additional 15% included categories of data but not the data itself, while 26% stated they did not have any data, and 5% of responses referred the participant to another organization. Most replies were signed by the customer service department (25%), followed by privacy (13%), legal (12%), and others.

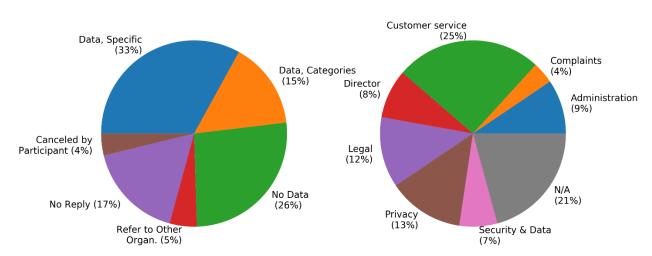


Figure 2 - Response classification (left) & responding department (right) for total sample

⁷ After at least 60 days have passed. (It is of course possible that some organizations will still reply at some point).

⁸ In two cases by referring back to their privacy policy and in two cases by referring to another organization.

Finally, Table 2 shows the response classification and time *by sector*. We can see quite some diversity across the sectors. For instance, all educational organizations in our sample answered responses, while 35% of the requests to companies in the transport sector remained unanswered.

Sector	Ν	Data (specific or categories)	No Data or Referral	NO RESPONSE (excluding cancelled)	Response Time (mean days)
Education	7	57%	43%	0%	29.3
Finance	6	67%	33%	0%	40.8
Government	30	40%	43%	10%	34.2
Platforms	10	60%	10%	20%	33.1
Retail	8	50%	25%	25%	30.8
Telecom	8	38%	38%	25%	21.8
Transport	20	30%	35%	35%	26.5
Utilities	7	57%	29%	14%	20.7
Other	10	80%	0%	10%	28.8
Total	106	48%	31%	17%	30.5

Table 2 - Access request response classification and time (by sector)

4.2. Diversity of Responses

In order to give a feel of the diversity among the replies, which exists in many different aspects, we will start with giving a detailed description of two answers, one compliant answer and one non-compliant answer.

Stroom

A data request was sent by letter to *Stroom The Hague*, a publicly funded art center in The Hague, by a participant who collaborates with them. Nineteen days after the request was sent, a response was received in the form of a letter from the director of the organization.

In the two page reply, seven categories of data, including name and contact details, artist details, nationality, and correspondence, are discussed. For each category, the letter describes how the organization has received the data (for example, if it was given to them by the participant). The data is either provided in the letter, or a reference is given to an online platform where the participant can access the data, and they briefly explain why the data has been (or is) processed. Furthermore, the letter indicates which of these data are publicly available, and even includes a section about data they do not currently have, but might have under different conditions, for instance, if the participant would have had a financial relationship with this organization.

Ziggo

A data access request was sent to Ziggo—a large Dutch cable company owned 50% by Vodafone and 50% by Liberty Global—by a participant. A customer service representative called within two days asking if the participant is facing any problems, for example with their password, and expressing that they do not really know what to do with this request. The participant explains that she would like to know how Ziggo deals with personal data, and if, for example, they record what television programs have been watched or which internet pages have been visited. The customer service representative responds that they will figure this out and get back to the participant in writing.

Four days later, the participant is called again, this time by a representative of complaints management, who again expresses that it is not "really clear" to them what they have to do with the letter. The participant explains the same story again, and requests access to her data. The complaints manager suggests the participant read the information on the website, with no additional information. The same day the participant receives Ziggo's privacy policy by e-mail, which in laymen terms explains the right of access: "You have the right to know which of your personal data we store. We can request a small fee for the administrative costs that are connected to offering this type of data". But still no data is offered, nor are the specific questions regarding specific types of data is answered.

A few weeks later, the participant sends a more specific data access request, and specifically asks for an overview of all the data related to her internet use in the past three months, and refers to the fact that, in her mind, the previous data access request was not sufficiently addressed. So far, after over two months, and after having sent a reminder letter, no response has been received.

4.3. How Complete Are the Replies?

The data protection law stipulates that organizations should, upon request, provide a full overview of the personal data held, plus the purpose and method of collection, and who the data was shared with. Just like the diversity in response time, there is quite some diversity in the content of replies across sectors, as the breakdown by sector in Table 3 shows.

Sector	N	Contains (specific o	Data or general)	Purpose of Collection	Method of Collection	Data Sharing (specific or general)	
Education	7	14%	43%	57%	43%	29%	29%
Finance	6	50%	17%	67%	50%	17%	67%
Government	25	24%	24%	36%	24%	24%	20%
Platforms	7	71%	12%	43%	29%	0%	71%
Retail	6	50%	17%	33%	33%	33%	17%
Telecom	6	50%	7%	33%	0%	0%	33%
Transport	13	46%	0%	54%	15%	8%	46%
Utilities	6	50%	17%	50%	67%	0%	50%
Other	8	62%	38%	50%	62%	62%	12%
Total	84	6	1%9	45%	32%	53	5%

Table 3 - Completeness of access responses, based on the elements specified in the law and reiterated in the requests, grouped by sector

⁹ Participants agreed with seven of the responses without data. If we count the lack of data in these replies as the correct data, the percentage within this cell increases to 69%.

Even where data is given, it can often be far from complete. For example, The Hague Library sent a reply that contained a *print-screen* from what seems to be their Customer Relationship Management (CRM) software. This print-screen only contains one tab called "borrower registration" which includes field like the name, date of birth, home address, contact details, and bank account number. In the print-screen it can be seen that there are a lot of other tabs, probably containing, amongst other things, a payment history, a history of the books that have been borrowed, and based on this maybe even a categorization of the type of borrower the participant is, like "music enthusiast" or "interested in historic novels". This seems to show an everyday language interpretation of "personal data", whereas the law has a much wider definition of personal data: "any information relating to an identifiable natural person".

Access requests sent to several municipalities—who all received the same request, and probably hold similar personal data—shed light on another aspect. Large organizations often find it hard to give a complete overview of all the personal data they have, and choose different ways to handle this complexity. The Municipality of The Hague sent a 16 page list of labels of data they share with other organizations on two databases, "BRP Verstrekkingsvoorziening" (Personal Records Database Distribution Facility) and "Beheervoorziening BSN" (Social Security Number Distribution Facility), but didn't offer any further explanation (see Appendix 1 for the first page of the reply). The Municipality of Amsterdam on the other hand responded with a letter explaining that they have a multitude of public tasks and responsibilities, and are therefore registering personal data in multiple systems. They invited the participant to visit in person to see if the access request could be more narrowly specified. The Municipality of Amstelveen took the middle ground: they sent an overview of some registrations, and invited the participant to visit in person to learn about the ways that the municipality deals with personal data.

Overall, even among the organizations that did respond to the data access request, it only very rarely seemed to be a with complete overview. Many organizations reply with lists of labels of data or categories of data, instead of sharing the specific data. As an example, Happy Socks sent a participant an e-mail in which they said that they have data like his name and home address, but they did not give the actual name and address that they have on file.¹⁰ OHRA, a health insurance company, after 69 days and two reminders, sent a letter containing a list of categories of data they collect, containing, amongst other things "medical data" and a list of the categories of potential recipients of the personal data containing, amongst others "health care providers".

Indeed, the text of the law is rather unclear, stating that "a full summary of the data" and "the recipients *or* categories of recipients" have to be provided. This seems to leave room for an interpretation that allows for stating categories as an acceptable reply (Van Breda & Kronenburg, 2016). However, the Dutch DPA (2007) has taken the position that the reply should include a full

¹⁰ This only happened after the participant first sent a reminder, then received a copy of the privacy policy, and then again asked Happy Socks to act upon the access request as detailed in their own privacy policy.

reproduction of the data, and this position has been accepted by the courts.¹¹ The GDPR addresses the ambiguity with regards to returning the actual data.¹²

Moreover, many organizations do not answer to the sub questions and even less respond with specific information. As Table 3 shows, many of the sub questions remained unanswered. In fact, while 83% organizations answered to the access requests, only 22% answered to all the sub questions asked, and only 10% organizations were specific in both the aspect of the data collected and the aspect of which organizations data was shared with. Bol.com, a large Dutch online web shop, was unique in the sample for sharing the specific third-party partners that receive data for processing payments and product delivery.

4.4. Do More Specific Requests and Follow-ups Help?

One might expect that the likelihood of receiving the full and specific data increases when a more specific request is sent. The empirical data shows a mixed picture in this respect. Participants sent 16 modified access requests asking for specific forms of data. Out of these 16 cases only 3 received a response that directly addressed the specific question posed. Participants also sent 13 follow up requests. These requests were almost invariably responded to with an individualized response directly addressing the question posed.

For example, participants sent five access requests to Amsterdam Airport Schiphol, two of which were modified. Schiphol replied to four participants, all with the same answer, that the airport does not have any personal data relating to them in their databases.¹³ This was while one participant requested all personal data related to one specific recent flight and another requested data related to the WiFi-tracking system while including the MAC address of the phone carried. These specific elements were simply ignored. We also sent one follow up letter to Schiphol, asking how it might be possible that the airport has no personal data, while handling luggage and boarding passes, and engaging in WiFi-tracking. Schiphol answered that they indeed keep luggage and boarding pass data, but delete these a few days after a flight, and the WiFi-tracking data they hold cannot be traced back to an individual.

This example follows a pattern we regularly observed. In most cases a request for specific data in an initial data request is ignored, while follow up requests get an individualized reply more often, but that does not always mean that data processes are revealed.

Sometimes a follow up request does receive an answer with data that was previously withheld. The UWV (Employee Insurance Agency), which is the autonomous administrative authority

¹¹ Dutch DPA (2007) p.39 "Pursuant to Article 35 of the Wbp, a report must be a complete and clear overview of the data that are being processed in relation to a data subject. This must not be a description or summary of the data, but a complete reproduction. If the report were incomplete, the data subject would of course be insufficiently able to exercise his or her rights under the terms of the Wbp. This interpretation was confirmed in mid-2007 by the Supreme Court in the judgments on the Dexia case, Supreme Court, 29 June 2007, LJN: AZ4663 and Supreme Court, 29 June 2007, LJN: AZ4664"

¹² The GDPR states "the data subject shall have.... access to the personal data.... <u>and</u> the following information: (b) the categories of personal data concerned." The ambiguity with regards to the recipients however remains as the law still states "... (c) The recipients or categories of recipient ..."

¹³ The fifth participant received a confirmation one month after their request, stating Schiphol expects to answer with a delay because of the holiday period.

commissioned by the ministry of social affairs and employment, to implement employee insurances and provide labor market and data services, is an example of this. In first instance, a participant sent a standard access request to the agency, to which they replied that they did not use any of the participants personal data.¹⁴ Then the participant sent a follow up letter, in which she pointed out that according to information on their own website, UWV processes data about work and income history of all employees in the Netherlands, and that she therefore does not understand how it is possible that UWV does not process any of her personal data. In response to this letter, UWV sent a reply including many pages from a system in which various personal details, including detailed income data, were recorded.

Through the examples Schiphol, UWV, and the Dutch municipalities (section 4.3), we can learn that *matching* responses from the same (or related) organization increases the ability to judge the quality, completeness, and veracity of an access response. To demonstrate this point, consider how Van Breda & Kronenburg (2016) judged Schiphol's access response, in isolation, to be of rather high quality. They find the response, despite providing no data, to be transparent and helpful as it provides information on other organizations that may process information about the data subject in the airport, and like the fact that the response was sent by registered post. But by sending five requests and comparing the answers we found that Schiphol sends *exactly* the same letter, irrespective of the precise question posed in the request. In other words, matching responses allows for a better judgement of the completeness of the individual answers.

5. Participant Perceptions

Our overall analysis so far suggests a rather mixed conclusion with regards to compliance. There clearly are organizations that are putting an effort to be transparent about the way they process personal data, while others, whether out of inability or unwillingness, are non-compliant with the basics of the law. More importantly however, the right of access is a data subject right intended to empower the citizen. Thus, we have to go beyond a formal legal judgment, and take into account the citizens' perspective, to assess the extent to which the right of access functions. We shall do that in this section.

5.1. Best and Worst Responses

When participants were asked which of the responses they thought were best in the interview, two criteria emerged throughout: the completeness of the data, and in different forms, the feeling of *being taken seriously*. The completeness was appreciated, in terms of sheer quantity, the coverage in time, and the precision in describing the origin of the data. But the much more striking aspect that participants judged was the *tone and the implied willingness to provide transparency* of the interactions: "Amstelveen Municipality did best because they invited me and were clearly putting an effort to get you the insight you wanted, even though you did not even know exactly what you wanted", or "TU Delft explained a lot and although I did not get the data I felt that I could have gotten it".

¹⁴ Of the five others who sent data access requests to two different branches of UWV, three never received a reply, even after sending reminders, and two received a reply that UWV did not process their personal data.

When asked which were the worst responses, the mirror image emerges. While participants disliked responses without data, they are more vehemently critical of responses that do not treat them respectfully. Participants made remarks such as: "You get the feeling that they try to keep you at a distance and make it complicated", "The way they are responding is almost like I am an idiot and they are making stuff up", "the way in which they address you is kind of aggressive to start with.", or "Their answer seems like a Jedi/Sith mind trick".

5.2. Completeness and Communication Style

We asked participants to grade all individual access request replies on a Likert scale (very bad – bad – neutral – good – very good) on the aspects of *perceived completeness* and *communication style satisfaction*. If we map these grades to numbers (very bad = 1, very good = 5), the average grade participants gave for perceived completeness was 2.1 (bad), and for communication satisfaction 2.6 (midway between neutral and bad).

While the number of requests is too low to make statistically significant claims about sectors as a whole, there seems to be quite a marked difference between different sectors in the sample, as shown in the Figure 3 boxplots. The high grades for the educational organizations and low grades for the telecommunications sector in particular stand out.

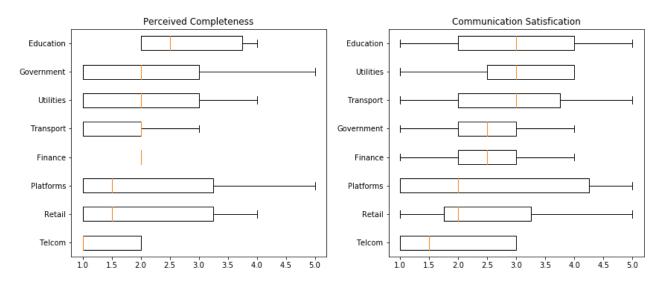


Figure 3 - Completeness & communication grades given by participants to access responses (Boxplots are ordered by the median grade per sector, indicated by the orange line in the rectangles. The rectangles show the 25 and 75 percentile of grades, which are on a Likert scale)

Low grades in the telecommunications sector (which includes mobile operators and ISP's) can be traced to a number of specific behaviors. For example, three out of four organizations (Car2go, Tele2, Telfort, Ziggo) that told participants to check out their privacy policy were in the telecommunications sector. This made participants feel *"[they] let you walk in circles, [and] you get nowhere"*, as their privacy policies explicitly mention the right of access that the participant is trying to make use of. With regards to completeness, none of companies in the telecom sector provided internet traffic or location data (gathered through connections with cell-phone towers), even when specifically requested. Participants felt very uncomfortable about this, because they believed that these companies have much more data than they are sharing through the access

response. Additionally, participants expect more from technologically capable companies: "*I tend to be a bit more lenient with companies or organizations that are not really IT based. [But] for example if a whole business is set up around databases and providing a website and giving you services, I would expect that they also have the expertise to very easily create a database dump and just give it to me*". Our finding about the negative perception on the telecommunication sector is in line with findings from Norris et al. (2017) who find that 7 out of 10 organizations in the mobile telephony branch apply restrictive practices when answering to data access requests.

5.3. What Do Citizens Expect from the Right of Access?

Before sending the data access requests, we interviewed participants and asked them what they expected from exercising the right of access, and why they were participating in our research. After having sent data access requests and receiving the replies, we interviewed participants again and asked them to reflect on the right of access based on their experience within this research.

Most participants expressed before sending access requests that they did not expect to get access to their data through using the right. Instead, participants expressed that exercising the right of access could still be good for other reasons. They expressed that when confronted with an access request, an organization might start to critically assessing its data practices, or as one participant put it, "*I* want to participate in this research because I want it to initiate a discussion. This to me is even more important than getting to see my own data. These two things are not even comparable. It is extremely important that we will make sure that in society, in politics and within organizations, the awareness is built".

Most participants reported that the replies were, by and large, in line with their expectations, i.e., the right does not work that well with respect to getting the data that they expected organizations to have: "*No, it is not effective*", "*In reality it is worse than I expected*", and "*It feels you are still ending up in some kind of black box*". However, they also expressed that the right works with respect to getting a deeper understanding of data practices: "*It has made me more aware*" and "*The experience of sending out these access requests was really eye opening*"

Most importantly, a feeling of gaining strength through collectivization was expressed. Participants said things such as "I think it has contributed to organizations building some kind of process for dealing with access requests, especially because I know we were in a group" and "it gives me a feeling of the potentiality of this [right] helping society in order to be more in control of our data or to be at least informed [...] about our data being hosted by third parties."

6. Discussion

6.1. A Failing Instrument

The goal of the right of access as a juridical tool is to enable citizens to verify the lawfulness of the processing.¹⁵ In these goals, it mostly fails. A substantial proportion of the queried organizations, whether out of inability or out of unwillingness, are non-compliant with the law. And while many replies are quite elaborate, even these replies frequently provide inadequate information to the

¹⁵ As both the explanatory memorandum of the Dutch Personal Data Protection Act as well as recitals of the GDPR state, as discussed in Section 2.

individual to make an informed judgment about the lawfulness of the processing. Most participants reported the process to be a poor experience in terms of transparency and empowerment.

We also found that, even after over fifteen years since this law was in place, certain organizations reported that they never received an access request. With some of the smaller organizations this was expected, but examples also include big organizations that deal with a lot of personal data like Delft University of Technology, with over 20,000 students, and Stedin, an electricity and gas network company with around 2,000,000 clients. Participants did not ask the organization to report if their request was the first they ever received, but this is probably true for other cases as well. This is quite remarkable especially when taking into account that the right of access is already present in Dutch law since 2001.

That the right of access has so far not been used very often is another sign that the right of access does not function well now. Of our participants, only one had ever used the right of access. If we ask why this may be the case, a possible answer is that people just do not care so much about the particular data practices of individual organizations. But given the reflections by the participants in the interviews (section 5.3), a more likely cause may be that the expectation of success is very low.

6.2. A Way to Salvage It

However, the responses of the participants also pointed to a way forward. First, participants expressed the expectation that the exercise of the right of access can be part of an effort to create awareness and spark debates, among citizens as well as organizations. And second, that it could be used collectively as a way to increase empowerment.

The underlying problem that could be addressed through collectivization is two folded. In the relationship between the citizen and the data controller, the starting point is one of a deficit of both power and knowledge on the part of the citizen (as argued by De Hert and Gutwirth, 2006).

With regards to the question of knowledge there are a few connected issues. Once a reply is received to an access request, it is very hard to know to what extent the reply is complete, or to judge the quality of the reply and the lawfulness of the data practices it reveals. To be able to judge the completeness, one needs to exactly have the knowledge that one does not have and is trying to receive through the access request. This judgement therefore can only take place in a context of a *network of knowledge*. This contextual knowledge needed to judge the quality of a reply can come from matching replies from other access requests, and from others with specialized knowledge.

That matching can help was demonstrated in the cases of Amsterdam Schiphol Airport (Section 4.4) and the Dutch Municipalities (Section 4.2). We were only able to see that Schiphol was always sending the same answer, because we had different answers to compare with each other. And we could know that The Hague Municipality probably process much more data than what they sent to some participants, by comparing its replies to those of other municipalities who showed they had personal data in a variety of databases.

The ability to judge the quality of a reply is also dependent on specialized knowledge coming from the legal and technical realms. Such is the case for example when the question is concerned whether a Media Access Control (MAC) address, a unique identifier for a communication device that is collected during WiFi tracking, should be considered personal data or not. According to the Dutch

DPA (2015), a MAC address is personal data, even when hashed by the organization. A citizen that does not have the technical knowledge to understand how this works, or the legal knowledge that the DPA has voiced in this opinion, stands very weak against an organization that takes an opposing position. Similarly, when the Dutch unemployment agency UWV, one of the largest governmental institutions of the Netherlands, claims not to process any personal data, a citizen needs to (1) know that this cannot be true, and (2) have the audacity to oppose the claim of a large government organization. In such situations, doing access requests in a community of people, some of whom who have specialized knowledge, empowers the position of citizens.

Viewing the right of access as a legal tool to empower citizens vis-à-vis more powerful and knowledgeable organizations has parallels with *freedom of information act* (FOIA) rights. The ideal behind FOIA rights is that the citizenry has the right to have knowledge about the functioning and decision making of governmental bodies (Kreimer 2008). And similar arguments have been made with regards to private companies (Pasquale 2015). Only an informed citizenry can make informed political judgments with regards to a government that in a democratic society should be under its control. The rationale for having the right of access is very similar. Moreover, similar to the right of access, FOIA rights are individual rights, while the benefit is meant to be for the society as a whole.

Similarly, the difficult conditions, of unequal information and power experienced by citizens that exercise their right of access, are very similar to those faced with FOIA rights. Kreimer (2008) notes for example that "to press a recalcitrant administration for disclosure under FOIA requires time, money and expertise". And while the right of access has been codified in such a way that it ought to be relatively easy for the citizen to execute, for example by having a low level of formal requirements to the request or capping the cost that organizations can charge for fulfilling a request, getting a clear picture of data practices through the exercise of the right of access is still very difficult, as organizations limit accessibility to the information in many different ways. Given the parallels, the conditions under which the right of access bears full fruition will also be very similar to FOIA rights. As Kreimer (2008) phrases it, FOIA regulation is effective when part of a broader "ecology of transparency" that includes "tenacious requesters" like well-financed NGO's and an active media.

6.3. The Ecology of Access Requests and Future Work

If indeed, as we argue, the access right works best when used collectively and is aimed at empowerment and transparency at a societal level, the next question is what are the best fitting forms of collective organization for this right?

Several forms have been so far tested. A number of online projects, including Bits of Freedom's *Privacy Inzage Machine*¹⁶ and Citizen Lab and Open Effect's *Access My Info*¹⁷ (see Hilts & Parsons, 2015) help citizens generate access request letters. These projects create awareness for citizens about the right, and lower the boundary of exercising the right by simplifying the process. They may also encourage organizations to be better stewards of personal information, as receiving access requests in high numbers signals to an organization that citizens are concerned about how their personal data is used, and can "spur institutions to improve their privacy practices" ¹⁸.

¹⁶ https://pim.bof.nl/

¹⁷ https://accessmyinfo.org/

¹⁸ https://accessmyinfo.org/

Activists, such as Rejo Zengers (in the Netherlands) and Max Schrems (in Austria and Ireland) have exercised their right of access, used blogs to share findings about the results with a broader public, and entered into litigation in order to force organizations into increased transparency about their personal data practices (e.g. Zenger, 2011).¹⁹ Others like Dehaye (2017) have combined the creation of an online access request tool with academic work and investigative journalism.

We plan to extend the current research in two ways. First, we are currently building a digital platform to recruit a larger group of participants in various E.U. countries, to send and track access requests in line with the method explored in this paper (see Asghari et al., 2017). This allows a more elaborate empirical assessment of the right of access in action, and in particular, to compare sectoral and country level differences. Second, we plan to include the point of view of the target organizations, by interviewing their DPOs in the future.

7. Conclusion

Just as the proverbial proof of the pudding is in the eating, rather than in a careful assessment of its recipe, the right of access should be assessed by how effective it is in practice. And since the right is meant to empower citizens, citizens should be the ones who judge if it empowers them. In our study, we asked participants to send access requests, and collected responses to their requests, and interviewed them along the way. The resulting picture is not pretty: while there are some positive exceptions, overall the compliance with the right of access is a mess. Non-compliance with the formal requirements of the law is widespread, with some organizations failing to answer at all, and others obstructing transparency in their answers. This mess did not surprise our participants though.

This sobering picture, however, does not mean that the right is useless. When the right is used in a collective manner, it creates a context to judge the quality of replies and the lawfulness of the data practices by comparing replies to similar access requests. Participants also perceived a societal much more than an individual value in exercising this right, not the least because through collective use, the power imbalance between individual citizens and organizations shifts in favor of the citizen.

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¹⁹ Also: https://www.fbclaim.com & http://www.europe-v-facebook.org/

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Appendix 1

Below is the first page of a reply to an access request to the Municipality of The Hague. It contains a list of labels of data they share with other organizations through two databases "BRP Verstrekkingsvoorziening" (Personal Records Database distribution facility) and "Beheervoorziening BSN" (Social Security Number distribution facility). No further information, background or invitation for further questions is given.

Den Haag RECHT DP7/2014.362 2 Retouradres: Postbus 12 600, 2500 DJ Den Haag Aan : Uw brief van 11 augustus 2017 <Name Participant> Uw kenn <Address participant> inzage Brp Ons ke <reference nr organization> 070 -3533192 E-mailadres Aantal biilagen Datum 18 september 2017 Inderwerp Inzage BRP 2016-2017 Geachte < Name participant> In antwoord op uw hierboven vermelde brief deel ik u mede dat er geen informatie over u verstrekt is vanaf 11 augustus 2016 t/m 3 augustus 2017 Voor wat de verstrekkingen uit de BRP Verstrekkingsvoorziening en Beheervoorziening BSN in dezelfde periode vermeld ik deze hieronder, t.w.: Verstrekkingen: Ad Hoc Afnemer 606501 Universitair Medisch Centrum St. Radboud Verstrekkingsdatum 27-01-2017 Verstrekte rubrieken 01.01.10 ANr 01.01.20 Bsn 01.02.10 VoorNaam 01.02.20 TitelPredikaat 01.02.30 GeslachtsNaamVoorvoegsel O 1.02.40 GeslachtsNaam 01.03.10 GeboorteDatum 01.03.20 GeboortePlaats 01.03.30 GeboortelandCode 01.04.10 GeslachtsAand 01.61.10 NaamGebruikAand 05.01.10 ANr 05.02.30 GeslachtsNaamVoorvoegsel 05.02.40 GeslachtsNaam 05.03.10 GeboorteDatum 05.06.10 RelatieStartDatum 05.07.10 RelatieEjndDatum 06.08.10 OverlijdenDatum 06.08.20 OverlijdenPlaats

08.09.10 hschrijvingGemeenteCode

08.10.30 AdreshoudingStartDatum 08.11.10 StraatNaam

08.10 .20 GemeenteDeel

08.11.20 HuisNr 08.11.30 Huisletter 08.11.40 HuisNrToo

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