Voting wiser

The effect of Voting Advice Applications on political understanding

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Chapter 1

Introduction
A well-informed, engaged, and participating electorate is essential for representative democracies. In order to carry out the ‘will of the people’, the parliament should be a reflection of the citizenry as a whole. Therefore, it is necessary that citizens take the effort to voice their interests and preferences through voting, and that their votes reflect these interests and preferences. Hence, at least in most mainstream conceptions of western democracy, citizens need to participate politically and they need to have a certain level of political knowledge in order to be able to judge which politician or which party represents them best. It is, however, a normative question what level of political knowledge and what level of participation is required for a ‘healthy’ democracy (Strömbäck, 2005). Even though there has been a lot of debate on this subject, there are widely shared concerns among scholars about the level of engagement and knowledge among citizens in Western democracies (Delli Carpini & Keeter, 1996; Lau & Redlawsk, 2007; Lupia, 1994; Somin, 1998) and the ease with which citizens’ opinions are influenced by elite manipulation and the framing of information (Druckman, 2001; Sniderman & Theriault, 2004; Zaller, 1992).

The question how to engage citizens more with politics, and to harness them against attempts of public opinion manipulation by elites, is a central theme both to political communication science and political science (Dalton, 2014; McQuail, 2010). The (news) media have a crucial role here, as these are the most important channels through which citizens inform themselves about politics. When the internet became available to ordinary consumers in the 1990’s, observers had high expectations of its potential for democratization and citizen engagement. After all, the internet circumvents the one-way, top-down communication model of traditional media like newspapers, TV and radio. It allows for direct interaction between citizens and politicians, without the interference of communication professionals and journalists (Blumler & Gurevitch, 2001). It offers almost unlimited information to anybody, greatly improving means to inform oneself on societal and political issues. And it facilitates political debate and exchange of ideas between citizens, without them having to leave their homes – especially since the introduction of social media (Chadwick, 2012; McQuail, 2010, p. 151).

According to this optimistic view, the internet can contribute greatly to political engagement, information exchange and public debate, and hence mobilize citizens to become more politically sophisticated. There is some evidence for this proposition: for example, Boulianne (2011) found that political internet use can lead to more interest in politics among Americans. At the same time, she found that TV news is only consumed by those who are already interested in politics, and does not engage the uninterested. There is, however, no agreement among political communication scholars whether the internet has the capacity to mobilize citizens where traditional media fail to do this. According to a more pessimistic view, the people who use the internet
for political information and deliberation are mostly the same people who were politically active before the availability of the internet (Norris, 2001). As Bentivegna (2006, p. 335) noted,

“The desire to be a ‘good citizen’ precedes and accompanies the wish to be an informed citizen. It is thus illusory to attribute to ICTs the power to transform distracted and uninformed citizens into well-informed participants. It is, rather, more realistic to attribute to ICTs the power to destabilize the control of the production and circulation of information held by the traditional media.”

In other words, while the internet does have the capacity to change the information context and interactions between politicians and citizens, it is incapable of bridging the gap between uninterested and interested citizens. For citizens to use the internet to learn about politics and develop their political views, the same personal resources (education, time) and motivations (interest and political efficacy) are required as for off-line political media use. This latter view is referred to as the normalization hypothesis: availability of the internet does not automatically lead to more political efficacy, more participation and better-informed citizens, but rather reinforces traditional boundaries. This view is also supported by empirical evidence (Boulianne, 2009; Scheufele & Nisbet, 2002). The literature is inconclusive as to what is the contribution of the internet in general.

Voting Advice Applications serve as an interesting case in this academic debate. They are a good example of ICT that changes the information context and the interaction between citizens and politicians. Or, in Bentivegna’s words (2006, p. 335), they have the “power to destabilize the control of the production and circulation of information held by the traditional media” as they ignore the news cycle and the traditional dynamics of election campaigns, and instead provide a helicopter view on the key issues during the elections and each party’s positions on these issues. However, do they also have the power to “transform distracted and uninformed citizens into well-informed participants”, by increasing their understanding of politics?

VAAs offer an approach of presenting political information that would not have been possible without the internet: they work as an freely available online quiz, appealing to large groups of voters, offering them the necessary information to make an issue-based voting decision, and tailoring this information to the individual user (Fos sen & Anderson, 2014; Garzia, 2010). For this reason, they might succeed where other media and platforms fail to engage uninterested citizens. As Lau and Redlawsk (2006, p. 262) write about this new type of information source, “this level of control over the flow of information in a campaign is unprecedented and has the potential to change the way voters learn about their choices”. VAA builders have similar expectations and
1.1. A Brief History of VAAs

Aim to contribute to democracy by engaging more voters with politics, increasing political understanding and turnout and helping people to make better informed voting decisions (J. De Graaf, 2010; Marschall & Schmidt, 2010; Nuytemans, Walgrave, & Deschouwer, 2010). The study of the capabilities and effects of VAAs thus feeds into the wider mobilization / normalization controversy, serving as an interesting case of the potential of the internet.

This dissertation investigates to what extent VAAs live up to the promise of raising citizen competence. More specifically, it focuses on the contribution of Voting Advice Applications to citizens’ understanding of politics. The central question of this dissertation is: How do VAAs affect understanding of politics and political issues, and how does this interact with resources and motivations of citizens? This subject is tackled from different perspectives, using a multitude of data sources and research methods. From a media use perspective, I study types of VAA users and their motivations to use VAAs – both in first- and second-order elections. This has implications for the capacity of VAAs to inform: if VAAs are only used by those who are informed already, they will not have a mobilizing influence. From a language use perspective, I test if the framing of policy issues affects the understanding people have of politics, and whether this affects their opinions. Lastly, I investigate whether VAA use results in an increase in factual political knowledge and in a feeling of knowledge, or internal political efficacy.

In the remainder of this chapter, I will introduce the dissertation and its chapters, situate this research effort in the broader context of political communication and VAA research, and discuss the theoretical, practical and methodological contributions of this dissertation. But first, I will give a more elaborate introduction into the phenomenon of Voting Advice Applications.

### 1.1 A Brief History of VAAs

As a way to provide insight into politics to high school students, during the 1989 Dutch elections the Citizenship Foundation (Stichting Bugerschapskunde) developed a package with a list of statements from party manifestos, about which students could give their opinions (J. De Graaf, 2010). This Stemwijzer package also contained a floppy disk so that students could use the school computer to calculate which party they agreed most with. While only 50 packages were sold to high schools during these elections, five years later some thousand Stemwijzer floppy disks were sold to schools and individuals through bookshops and kiosks. In 1996 Stemwijzer was first available online, and by 2012 about 50% of the Dutch electorate consulted Stemwijzer before casting a vote in the national elections (Marschall, 2014). Meanwhile, Stemwijzer spin-offs have appeared in other countries (like the German Wahl-O-Mat, attracting more than 13 million visitors in 2013) and alternatives have been developed, like the
Dutch Kieskompas. VAAs are now available throughout Europe, and are making their appearances in other democracies worldwide as well (Liao, Chen, Jensen, & Pritchard, 2015). In 2009, the first supranational VAA EU Profiler was developed for the European elections and in some countries, like Germany, Belgium, Switzerland and the Netherlands, the first regional-level VAAs have appeared (Schultze, 2014; Sudulich, Garzia, Trechsel, & Vassil, 2014).

Several explanations have been put forward for the remarkable rise of the popularity of VAAs throughout Europe. In many western European countries, the traditional relations between parties and voters have faded. A few decades ago, most voters were loyal to one party: the party of the class or social group they belonged to (Lijphart, 1975). In current times of eroded class boundaries and advanced mediatization, this traditional voter-party relation has become less relevant (N. D. De Graaf, Heath, & Need, 2001; Garzia, 2010; Mair, 2008). Other considerations have become more important in the voting decision process, such as evaluation of past performance, issue agreement, party identification, politician’s performance in the media, or strategic considerations (Dalton, McAllister, & Wattenberg, 2002; Garzia, 2012; Lau & Redlawsk, 2006; Shanks & Miller, 1990). Voters also switch more often and make their voting decisions later in time (Dalton et al., 2002; Fournier, Nadeau, Blais, Gidengil, & Nevitte, 2004; Irwin & Van Holsteyn, 2008) – indicating they are less certain about their vote decision than some decades ago.

In the Netherlands this change was very profound: within one decade, this country changed from being a relatively politically stable nation to having one of the highest volatility rates in Europe (Mair, 2008). This resulted in an increasing fragmentation in Dutch politics: more and more parties are being considered by large groups of voters (Van der Brug & Pellikaan, 2003). In the latest national elections, 21 parties competed for seats in parliament, and 11 parties ended up with at least one seat. In this context of increased choice and lack of habits and tradition, voters seem to be looking for cues to rely on, and VAAs offer an easy and appealing way to find out which party fits one’s preferences and interests (Garzia, 2010).

There is a wide variety of VAAs (see Garzia & Marschall, 2012, for an overview of differences), but they all share a couple of features. Users indicate their opinions towards a number of statements about political issues, and on each of these issues the VAA compares the user’s opinion to the positions of each party. Based on this comparison, the VAA produces a voting advice (see Figure 1 and 2). This advice can either be in the form of a list of parties ranging from best to worst matching (Figure 1), or a graph depicting the political spectrum with the positions of all parties and that of the user (Figure 2). Most VAAs also offer functionalities like comparing one’s opinion to the positions of all parties for each statement separately, and providing the arguments that parties put forward for their positions.
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The popularity of VAAs spurred a vivid debate on their function in politics – both public and academic. Research on VAAs can broadly be divided in two interrelated
lines: first, who are the users, what effects do VAAs have on their users and do they contribute to citizen competence? Second, what are the design effects, biases and assumptions of VAAs, do they offer a good representation of the political spectrum, and how can they be improved?

This dissertation contributes to these lines of research in multiple ways. It broadens the scope of the study of VAA users in earlier research by looking beyond socio-demographic characteristics. I distinguish different types of users by their cognitive characteristics and their motivations to turn to VAAs. Additionally, different contexts of VAA use are taken into account by comparing the role of VAAs in first- and second-order elections. The dissertation further contributes to the study of VAA effects on users by making a distinction between factual and perceived knowledge gains and offering a strict test of both. It contributes to the study of design effects by looking at different ways of framing political issues. Lastly, it contributes by using a number of methods that are innovative to the field of VAA research and help us to answer more questions about the use and effects of Voting Advice Applications. This dissertation is part of a comprehensive research project on the effects of VAAs on political attitudes, political literacy and understanding, and political behavior.

In the following sections, I will discuss the insights research on VAAs brought us so far, and how this dissertation is situated within the two lines of VAA research I discussed above: how VAAs matter for citizen competence and the biases and design effects in VAAs.

1.2 Democratic Contribution of VAAs?

The astronomical increase in VAA use, the formal way of matching voters to parties, and the persuasive influence this might have in the decision process of voters make VAAs an important actor in election campaigns. VAA developers often strongly emphasize that their tools are not intended to provide a voting advice, but rather to inform voters by offering a personalized summary of important issues and the party positions on these. One of the overarching questions in the debate about VAAs is on the exact role VAAs play in modern democracies, and whether this is a beneficial role. A couple of studies have empirically studied this role, and there has also been some reflection contesting the assumptions underlying VAAs, which I will discuss later.

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1.2. Democratic Contribution of VAAs?

1.2.1 Empirical findings

As mentioned previously, VAA builders aim to contribute to democracy by increasing political interest and knowledge, motivating citizens to vote and to help them make informed voting decisions (J. De Graaf, 2010; Nuytemans et al., 2010). Ideally, VAAs help people to be more aware of their preferences, vote accordingly, and to go out and vote if they otherwise would not. This will lead to better representation of the interest and preferences of citizens in the government. Hence, to answer the question whether and how VAAs contribute to democracy and democratic representation, scholars have looked at VAA users, gains in knowledge and interest, effects on turnout and effects on vote choice.

With respect to the users, the question is to what extent VAAs are used by those who are less well represented in government – those who are less inclined to inform themselves and turn out to vote in elections. Early research concluded that users are on average male, higher educated and more than average interested in politics (Boogers & Voerman, 2003; Hirzalla, Van Zoonen, & De Ridder, 2010; Hooghe & Teepe, 2007; Marschall & Schmidt, 2010; Ruusuvirta & Rosema, 2009). In a recent study on users of the German Wahl-O-Mat, Marschall and Schultze (2015) looked at motivations and political behavior of VAA users and observed that typical VAA users are young people who are politically engaged already, and accustomed to using the internet for their political information needs.

These conclusions support the normalization thesis: VAA users very much resemble the typical kind of people who inform themselves about politics anyway – and if that is the only type of citizens using VAAs, these tools will not be able to bridge the divide between politically uninterested and interested citizens. Chapters two and three in this dissertation, however, argue that a focus on the average user obscures the variability among users, and ignores the possibility that there is a minority of users who were not already engaged before. Additionally, in Chapter 3, I will investigate to what extent VAA use differs between types of elections. In some elections VAAs might attract more uninterested and uncertain voters than in others.

In case VAAs are used by less informed and less interested citizens, this might have mobilizing effects in terms of electoral participation. After all, those who are interested and informed already will go out and vote anyway (Verba, Schlozman, & Brady, 1995). The effect of VAA use on electoral turnout was tested in a couple of studies throughout Europe (Dinas, Trechsel, & Vassil, 2014; Enyedi, 2015; Fivaz & Nadig, 2010; Gemenis & Rosema, 2014; Ladner, Felder, & Fivaz, 2010; Marschall & Schultze, 2012). While all of these studies established positive relations between VAA use and turnout2, not all of them could make causal inferences about this relation.

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2 Dinas, Trechsel and Vassil (2014), however, found that this relation is dependent on the extent to
Two studies deserve particular interest. Gemenis and Rosema (2014) use matching techniques to simulate an experiment and find that VAA use increases turnout with a little over 4%. Enyedi (2015) carried out an experiment, but could not find evidence for any contribution of VAAs to turnout. It seems that, if there is any effect, it will be modest.

How about political knowledge? Walgrave, Van Aelst, and Nuytemans (2008) argue that the rising participation in VAAs may lead to more debate on issues and positions of parties, rather than on “secondary aspects” of campaigns (p. 680), and this would be healthy for democracy. There has not been much academic attention yet, however, to the question whether VAAs actually contribute to factual knowledge about politics and positions of parties on issues. A couple of studies asked respondents to indicate what they felt was the effect of using VAAs. For example, about half of Finnish voters think that VAAs are an important source for political information (Ruusuvirta, 2010); 60% of German Wahl-O-Mat users indicate that this VAA had motivated them to collect more political information (Marschall & Schmidt, 2010); and 65% of Swiss Smartvote users claim that using Smartvote motivated them to discuss politics with others.

Only recently, VAA researchers began studying factual political knowledge, and the effect of VAAs on them. Schultze (2014) and Westle, Begemann, and Rütter (2014) operationalized political knowledge as the ability to correctly identify positions of parties on political issues. VAAs would have a positive effect on political knowledge if, for example, people are more often able to associate the conservatives with reducing unemployment benefits after using a VAA. They found this to be the case: in both studies, a moderate increase in political knowledge was found after using a VAA.

However, it should be remarked that, since Schultze (2014) compares users to non-users, his findings may be affected by selection bias. Westle and colleagues (2014) do not compare users against a control group but measure knowledge before and after using the VAA, with the risk of measuring test effects. In Chapter 5 I take another important step towards measuring the causal effect, by comparing political knowledge between users and non-users in a quasi-experiment. Additionally, this study also assesses whether VAAs contribute to a feeling of knowledge, or political internal efficacy. Efficacy is an important factor in the motivation of voters to go out and vote, and to be interested in politics and political campaigns (Kaid, McKinney, & Tedesco, 2007; Kenski & Stroud, 2006).

VAA researchers lastly also investigated the effects on voting decisions, and whether VAAs – as has been claimed – helps voters to make an informed choice. Assuming that not all voters vote for the party that represents their interests and preferences best, which voters’ positions are represented by parties. If the VAA shows that no party represents someone’s preferences, they will demotivate users to vote.
then, if VAAs would help voters to make more informed vote choices, this should result in vote switching after using a VAA. The impact on voting decision was investigated in a series of studies (Álvarez, Levin, Trechsel, & Vassil, 2014; Andreadis & Wall, 2014; Dumont & Kies, 2012; Pianzola, 2014; Walgrave et al., 2008; Wall, Krouwel, & Vitiello, 2012). Using different sources of data – log data from VAA users, national election studies, experiments – they could all establish a (modest) effect on the vote choice of users, especially among lower educated citizens (Dumont & Kies, 2012).

To be sure, this impact of VAA advice on vote choice does not necessarily imply that VAAs contribute to democratic representation by helping people to make better-informed vote choices (i.e., pick parties that represent them better). But at least these studies established that there is a real-world effect that might matter for election outcomes. Whether voters now make ‘better’ or more ‘correct’ decisions is open for discussion and depends on many factors and views. For instance, is the VAA advice a proper reflection of the preferences and interests of users? And do these recommendations take into account everything that is relevant when making one’s mind up about which party to vote for?

In sum, research on VAA effects established a modest increase in turnout after VAA use, and found some indications that VAA use contributes to political knowledge. More robust evidence has been found that VAAs also affect the voting decisions of users. In the next section I discuss the normative model of democracy VAAs implicitly adhere to, and later in this chapter I will return to the question whether it is possible to build a neutral VAA.

1.2.2 Normative perspectives and assumptions underlying VAAs

A common trait of VAAs is that they ask users to specify their own issue positions and receive an overview of parties, ranked according to the extent to which they agree with the user. The issues included in VAAs are usually issues that are contested in the election campaign. This means that VAAs choose to assist voters in their decision process by focusing on policy measures that are proposed by parties for the upcoming period of office. This approach is less obvious than it may look at first glance. With this design VAA builders make some implicit choices, while other approaches would also have been possible (Fossen & Anderson, 2014).

First, VAAs assume voters should – or will – vote for the party that they agree most with on relevant issues, adhering to the issue voting model (see Downs, 1957). After all, that is what they help voters figuring out. In doing this, they ignore other considerations to vote for a party such as the performances of parties and politicians in the past period, ideological principles or the qualities of specific politicians like party leaders (Ladner, 2016; Rosema, 2012; Wagner & Ruusuvirta, 2011). More specifically,
within the framework of issue voting, some VAAs use a proximity model of voting: matching voters to parties they agree most with overall and taking all issues into account equally. Other VAAs have more attention for how strong people’s opinions are (by distinguishing between “agree” and “completely agree”), adhering to a directional model. And some VAAs use the salience model, by taking account what issues users think are most important (Wagner & Ruusuvirta, 2011).

Second, the idea that voters choose the party that best represents their opinions adheres to a view of politicians as ‘delegates’ whose task is to represent the interests and opinions of their constituents. In an alternative view, politicians are ‘trustees’ who receive a mandate to act according to what they think is best for the common good (Anderson & Fossen, 2014; Ladner, 2016).

Third, the assumption that voters have fixed opinions on a set of political issues and need to know which party agrees most with them, fits well with a social choice model of democracy. This model emphasizes the need for the best possible match between one’s political preferences and the party she or he voters for. Another possible model of democracy, for example, would be a deliberative model, assuming that voters are in need of arguments and are looking to find out what their preferences are instead of which party best matches these preferences (Anderson & Fossen, 2014; Fossen & Anderson, 2014; Fossen & Van den Brink, 2015; Strömbäck, 2005).

The assumption that voters have fixed opinions is also contested in the field of public opinion research. The absence of stable opinions grounded in arguments and principles is a well-established finding (Converse, 1964; Sniderman & Theriault, 2004; Tourangeau, Rips, & Rasinski, 2000; Zaller, 1992). Framing effects, encountered in a large number of studies in political communication, could on the one hand be regarded as an indication that many people do not have fixed opinions on many issues and adjust their opinions in response to different framings of an issue (Druckman, 2001; Zaller, 1992). On the other hand, effects of issue framing could also be the result of people having considerations and arguments both in favor and against a course of action. They just take into account the considerations relevant to the frame (Druckman, 2001; Sniderman, Tetlock, & Elms, 2001). I will return to the discussion of framing later. The point here is that while VAAs assume users have fixed and readily available opinions on political issues, it is more likely that users have some considerations about issues, in favor of and against the statement, or no opinion at all.

In conclusion, even though most VAAs share the same view on voting decisions, assumptions about democratic representation, and about engagement of voters, alternative views are possible and would result in VAAs with different approaches. A deliberative VAA, for instance, would not regard political opinions as fixed and would invite its users to engage in political discussions with each other, offering information and arguments in favor of or against certain positions. A less issue-based VAA would
include questions to find out about ideologies and principles users adhere to, or about how they valuate performances of candidates. In the Netherlands, the developers of Stemwijzer also offer the Stemmentracker (http://www.stemmentracker.nl/), a VAA that compares users’ positions to how parties voted on bills in the past. And sociologists from Maastricht University developed the “Politieke Weegschaal” (Political Balance Scale), a VAA addressing the issue that in VAAs users can at the same time agree with tax cuts and also agree with more government spending. They force users to make a trade-off between alternative policies, and hence offer a ‘more realistic’ voting advice (Korthals & Levels, 2016). The challenge is to make them as easy and appealing as the VAAs that attract millions of users today.

In any way, regardless whether the voting advice reflects one’s ‘correct’ voting decision and regardless whether the underlying assumptions of VAAs are contested or not, their ‘voting advice’ does affect real-world voting decisions. Hence, it is very relevant to study what function VAAs have in the way voters inform themselves about politics in modern election campaigns, and how design aspects affect the voting recommendations people receive.

1.3 The Impossibility of a Neutral VAA

There are a number of decisions VAA developers need to make about the design of their VAA. For example, which issues to include; how to formulate the questions and which order to put them in; which method to use to determine how much users agree with parties; how to present the results and so forth. Most of these decisions are political in nature, since there are no unambiguous principles that could guide developers in making them (Rosema, Anderson, & Walgrave, 2014). And these decisions all affect the voting advice and the likelihood for each party to be recommended to users. It is hence impossible to build a VAA that is entirely neutral and free from biases.

To start with, VAAs make use of a range of survey questions to assess the positions of users on political issues (“Immigration into the Netherlands should be made more restrictive”). These survey questions, or statements, are the same as those often employed in traditional surveys. They are therefore subject to the same wording and design effects – identified in a large body of survey methodology literature.

For example, it matters whether statements are formulated positively (“… should be allowed”) or negatively (“… should be forbidden) (Holleman, 1999; Schuman & Presser, 1981). For a test of this so-called valence framing effect in VAAs, see Holleman, Kamoen, Van de Pol, Krouwel, and De Vreese (2014). It also matters how many response categories are used and how they are labeled (Schwarz, Knauper, Hippler, Noelle-Neumann, & Clark, 1991) – Stemwijzer, Wahl-O-Mat and other VAAs use 3-point scales, plus the option to “skip this question” while Kieskompas, Smartvote and
yet other VAAs use 5-point (Likert) scales, plus the “don’t know” option. According to Gemenis (2012) the advantage of the 5-point scale is that more choice is offered, but the drawback is that two dimensions are conflated: both direction (agree / disagree) and intensity (tend to / completely). Additionally, there is some controversy over whether people use the middle option (“neither agree nor disagree”) and the “don’t know” option as intended, or perhaps also use the middle option to express a lack of opinion (Baka, Figgou, & Triga, 2012; Van Outersterp, Kamoen, & Holleman, 2016). It might even matter in what order the statements are presented to the user (Tourangeau & Rasinski, 1988). There could be contrast- or assimilation effects when respondents take the previous question into account when interpreting the question that follows. For example, respondents could be primed by the specific question to answer the more general question.

The literature on issue framing also offers insights about statement wording effects. VAA builders have to decide how to summarize a political issue concisely and accurately in one or two lines, and this can affect how users understand the issue. Before, I discussed how the framing of an issue often affects the opinions people express on the issue. Framing effects can already take place in the formulation of a single survey question. Sniderman and Theriault (2004) demonstrate that a majority of Americans favors a “big increase in government spending to increase opportunities for poor people” if the statement follows, “…so they can have a better chance of getting ahead in life”. However, if the statement instead says, “…even if it means higher taxes” only a majority still is in favor. The classic ‘Asian disease’ experiment by Kahneman and Tversky (1979) is another example of the potential power of framing (see Chapter 4). Zaller (1992, p. 95) summarizes the findings on the instability of public opinion as follows:

“What gets measured as public opinion is always and unavoidably dependent on the way questions have been framed and ordered. If different frames or different question orders produce different results, it is not because one or the other has distorted the public’s true feelings; it is, rather, because the public, having no fixed true opinion, implicitly relies on the particular question it has been asked to determine what exactly the issue is and what considerations are relevant to settling it.”

Will we encounter the same kind of framing effects in VAAs? After all, VAAs are a particular type of opinion surveys. Rather than indicating fixed opinions to the statements, many VAA users will probably form opinions on many issues on the spot. This means that effects of statement formulations are potentially large. On the other hand, formulation effects in VAAs might also be relatively small because VAA users have
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different motivations for answering VAA statements, compared to respondents in regular opinion surveys. VAA users know that the quality of the voting advice depends on the effort they take in answering the statements. Chapter 4 in this dissertation will provide a first test of framing effects in measuring opinions in VAAs, by studying to what extent VAA users adjust their political attitudes in the face of different framings of the same political issue.

In addition to statement wording issues, VAA developers need to decide about the selection of issues. VAAs typically feature between 30 and 40 statements on political issues. Any selection of statements affects the likelihood for each party to be recommended to its users. For example, in the Kieskompas and in the EUvox for the 2014 European elections, the only party agreeing with the statement “The Netherlands should exit the EU” was the PVV. Including this statement is beneficial for the PVV since it will make it more likely that the PVV will be recommended to anyone who agree with this statement. Each statement in this way will be favorable or unfavorable to some parties, and the selection therefore has important consequences. Walgrave, Nuytemans, and Pepermans (2009) and Lefevere and Walgrave (2014) indeed found that the voting advice provided by VAAs differs hugely if another set of statements was included.

A third way in which design aspects matters for the party recommendations people receive is the way the agreement between users’ opinions and party positions is calculated and presented to the user. If we take the Dutch Stemwijzer and Kieskompas as an example: these two VAAs might provide different voting recommendations even if they would have the exact same selection of statements and these are formulated in the exact same way. Stemwijzer (and their equivalents in other countries like Wahl-O-Mat in Germany and Doe De Stemtest in Belgium) simply count the number of times users agree with each party and then show the parties in order from most to least agreement. Kieskompas (and its international equivalences), in contrast, distributes all issues on two political dimensions: economic left-right issues, and an ethical dimension ranging from progressive (Green, Alternative and Libertarian) to conservative (Traditional, Authoritarian and Nationalistic\(^3\)). It then calculates the positions of users and parties in the two-dimensional political spectrum (see Figure 2). Because of these different approaches, the advice they produce is likely to be different even if two persons with the same opinions on the same issues use them.

While some scholars emphasize the advantages of the latter approach (the two-dimensional space) for providing more information about the political landscape than just a list of parties ranging from best to worst matching (Krouwel, Vitiello, & Wall, 2012, p. 235), others point to the fact that it is almost impossible to find two dimensions that accurately and reliably summarize the complete political space, and that

\(^3\) Taken from the work by Marks, Hooghe, Nelson, and Edwards (2006)
this structuring of issues should be based on empirical analyses (Germann & Mendez, 2016; Otjes & Louwerse, 2014). And then there is the question whether all issues are evenly important and should be assigned the same weight in the agreement calculation (Kleinnijenhuis & Krouwel, 2008; Wagner & Ruusuvirta, 2011)

Concluding, it is impossible to build one single objective, neutral and bias-free voting advice tool. Developers have to make one selection of statements, have to choose one order of statements, one formulation, choose one reporting scale and one agreement calculation method over another. These choices all affect the VAA results and hence the likelihood of parties to be recommended to users. However, the vivid debate about possible biases in VAA design will hopefully increase awareness of the fact that VAAs cannot be neutral, that different VAAs will provide different voting recommendations, and hence these results should not be followed blindly. Rather, VAAs should be used as a starting point to inform oneself about politics.

1.4 Outline of the Dissertation

This dissertation will take the current state of affairs in VAA research as the point of departure, and put some of the claims about its reach and effects to a robust test. Chapters 2 and 3 take the users of VAAs as their focus, and provide more insight into the question what types of voters consult VAAs and for what purpose. Chapter 2 establishes a typology of VAA users based on the motivations and interests of VAA users. This study utilizes user data from the popular Dutch VAA Kieskompas and a latent class analysis to identify different user types.

Recently, VAAs are also being developed for supranational elections (the European elections of 2009 and 2014) and subnational elections (e.g., in Belgium, Germany, the Netherlands and Switzerland). The third chapter replicates the typology developed in Chapter 2 for these second-order elections, and investigates how VAA use differs across elections. I test the hypothesis that in second-order elections, voters feel less efficacious (politically self-confident) about the elections and about their voting decision, which results in a more 'serious' use of VAAs (i.e., people use it more often to inform themselves as opposed to entertainment purposes).

In the fourth and fifth chapter, I study the way VAAs affect political understanding, and how this differs for more and less politically literate citizens. In Chapter 4, I report on a field experiment that investigates to what extent political attitudes of VAA users depend on issue framing. If the framing matters for opinions of users, also the voting

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4 This is perhaps a reason for VAAs to make a set of alternative choices (e.g., different sets of statements, formulations and orders) and offer the different versions of the VAA randomly to users. This is basically what has been done in a real-world VAA to test the framing effects reported in Chapter 4, but it requires significantly more effort to develop VAAs this way.
advice could be affected which could have consequences for political behavior of VAA users. Chapters 2 and 3 reveal that interested, efficacious voters who are solely looking for entertainment or confirmation of their party preference are not the only users of VAAs. Since there is a sizeable group of users that is looking for more information, there is an opportunity for VAAs to actually contribute to understanding of politics. Up to date only a few pioneering studies have looked into the effects of VAAs on factual political knowledge, and provide correlational evidence at best, or did not compare users and non-users. Additionally, no research has yet been done to the effect of VAAs on internal political efficacy, which in addition to knowledge is an important prerequisite for political participation. Chapter 5 discusses a quasi-experiment carried out during Dutch municipality elections, offering a more robust test of the causal effect of VAAs on knowledge and political efficacy.

Together, these studies offer a comprehensive picture of the role VAAs have in informing and educating citizens. While chapters 2 and 3 investigate the functions VAAs fulfill in the information supply of citizens during election campaigns, chapters 4 and 5 focus on how this information supply affects political understanding. Chapter 4 investigates how issue framing affects people's understanding of particular issues and people's opinions on these issues. Chapter 5 studies how VAAs contribute to understanding of politics generally, and the feeling of understanding, or politically efficacy. Both chapters 4 and 5 investigate how these effects differ for different groups identified in the first two chapters. The conceptual overview is shown in Figure 3.
1.5 Contribution and Conclusion

This dissertation incorporates a number of innovations in the research on VAAs, and an innovation to the field of framing and wording effects. First, with respect to the study of VAA users I argue that it is more informative to look at different groups of users instead of focusing on averages. This could also lead to a different picture of the function of VAAs in the political process. If users of VAAs on average are highly educated and interested in politics, as observed by extant research (Boogers & Voerman, 2003; Hirzalla et al., 2010; Hooghe & Teepe, 2007; Marschall, 2014), this suggests that VAAs will probably not manage to close the knowledge gap, as they set out to do. After all, to close the knowledge gap, less interested and lower educated citizens need to catch up in terms of political knowledge, and it is that group of people who needs to benefit from using Voting Advice Applications. However, if the users of VAAs are studied from a perspective of types of users, a different picture emerges, as is seen in Chapter 2 and 3. In these chapters, latent class analysis is employed to find out which types of VAA users can be distinguished. Chapter 2 shows that users can be subdivided into three types, only one of them resembling the picture of interested and efficacious voters as drawn by previous studies – labeled checkers. Chapter 3 shows furthermore that in second-order elections, this group of checkers is even in the minority.

This dissertation contributes methodologically by offering a test of the causality of effects of VAAs on understanding of politics. Early studies of VAAs had a very explorative character and often relied on estimations of VAA effects that were reported by users themselves (e.g., Fivaz & Nadig, 2010; Ladner & Pianzola, 2010), as measured with questions like “Did the Smartvote recommendation influence which parties or which candidates you voted for?” (Ladner et al., 2010, p. 114). As Pianzola (2014) notes, self-reported measures like these have reliability issues (cf. Walgrave et al., 2008), and because only VAA users are investigated, no comparisons can be made with non-users, and therefore not much could be said about the actual difference VAAs make.

More recent studies have taken important methodological steps in identifying the effects of VAAs. For example, to measure the extent to which people learn about party positions, Schultze (2014) uses a set of factual questions to accurately measure political knowledge, and compares users to non-users to see how VAAs contribute to knowledge. That study, however, still draws on non-experimental data, and respondents hence self-selected into treatment. Because of this reason, causal inferences are not possible. In an effort to test the effect of VAA use on electoral participation, Gemenis and Rosema (2014) therefore use matching techniques to mimic a field experiment. While this approach already greatly diminishes selection bias, it does not allow for the same sort of inferences that a randomized experiment would. In Chapter 5 I take an-
other step towards this golden standard, by carrying out a quasi-experiment in which VAA availability is unrelated to individual predispositions. I will further use the same matching techniques to further reduce selection biases. In Chapter 4 I report on a field experiment that meets the highest standards and allows us to draw causal conclusions about the effect of statement framing on political opinions.

Finally, this dissertation also contributes to the issue framing and survey literature by testing the effect of question wording – or framing – in the new context of Voting Advice Applications. As noted before, VAAs can be regarded as a special type of surveys. Effects may differ, however, because in VAAs respondents (users) have different motivations to answer the survey questions, compared to regular surveys. After all, they hope to receive a valuable voting recommendation, so they might spend more effort considering what their opinions are before answering the questions, compared to regular surveys. In the case of issue framing, this might lead to weaker wording effects. Another way in which this dissertation contributes to issue framing research is the clean design in which I use a narrow operationalization of issue framing, resembling equivalence framing.

In the following four empirical chapters, this dissertation studies the role VAAs have in modern election campaigns, and how they contribute to an understanding of politics for different (types of) citizens. VAAs serve as an interesting case in the normalization / mobilization debate, since they have the purpose of informing voters and are very widely used in election times, both in first- and second-order elections. This dissertation both looks at the extent to which VAAs are able to attract different groups of citizens, and to what extent they inform and contribute to political efficacy for different groups of citizens. Additionally, they also serve as an interesting case in the research on framing effects, as they offer a context in which subtle wording variations can have important real-world implications. By running different versions of one VAA, these subtle variations in framing are tested with high accuracy on a complete population of VAA users at once. In short, the dissertation provides more insight into the different ways in which VAAs affect understanding of politics for different groups of citizens.
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