

How much do german politicians represent their party's beliefs?

Tilman Hornung
University of Konstanz
Lecturer: Sascha Göbel

April 15, 2021

Contents

- 1 Introduction** **3**

- 2 Research Question** **3**

- 3 Method** **4**
 - 3.1 Processing of parties' manifestos 4
 - 3.1.1 Preparation 4
 - 3.1.2 Computation of TF-IDF scores 5
 - 3.2 Processing of speeches 5
 - 3.2.1 Web scraping 5
 - 3.2.2 Extraction of speeches 6
 - 3.2.3 Preparation 6
 - Duplicates 6
 - Missing Parties 7
 - Omitting unusable data 7
 - Final preparation 7
 - 3.2.4 Computation of TF-IDF scores 7
 - 3.3 Comparison of manifestos and speeches 7
 - 3.3.1 Preparation 7
 - 3.3.2 Analysis 7

- 4 Results** **7**

- 5 Discussion** **8**
 - 5.1 Interpretation of the results 8
 - 5.2 Methodological evaluation 10

- 6 Conclusion** **11**

- References** **12**

- Appendix** **13**

1 Introduction

Representative democracy has the great advantage of providing the opportunity for every citizen to shape the country's direction indirectly, meaning without having to actively partake in politics. But there are some problems coming along with it and one of those is, that parties will never be able to completely represent all of their member's views. It is therefore reasonable to assume, that politicians arising from these parties sometimes will differ from their party's stances regarding one topic or another. To support this assumption, speeches of german politicians given in german parliament were compared with their respective party manifestos via an automatic approach using the statistical programming language R.

2 Research Question

The fact, that parties represent positions which cannot satisfy their whole base completely is first of all a strength of representative democracy. Parties allow for people to join in defining a country's political system on the basis of shared core beliefs or which ever beliefs they seem important for them to be represented by that party. They therefore find the greatest common ground for (usually) the biggest social groups, may that be milieus or any other kind of social group sharing one or more specific belief.

In any case, for parties to reach a significant amount of influence, party members have to agree on those core beliefs and also agree to disagree on smaller, more specific beliefs. Disagreement regarding some topics is therefore inevitable. That usually holds for a majority of the party, including politicians, who are of a special interest. That is, they implement the party's visions and in that way are responsible for their party to be successful in a) representing their members' beliefs, and b) leading the country according to those.

One probably could argue, that these goals will only be reached, if politicians achieve to represent a majority of the party's stances. Nevertheless, because of the reasons stated earlier, it is justifiable to assume that deviations will happen from time to time. The pursued research question therefore mirrors the title:

How much do german politicians represent their party's beliefs?

The following term study has the purpose of providing a first approach to investigate this research question and further possibly from the methodology deriving research questions via an automatic procedure using the statistical programming language *R*.

3 Method

To get a clear view of the parties' stances, taking the content of their manifestos seems to be the best way. That is, manifestos represent a concentrated collection of important topics to the party and their stance regarding those.

As a measure of ideas and views actively represented by the politicians, their speeches in the German parliament, the *Bundestag*, were used. Like manifestos for the parties, parliamentary speeches provide a concentrated collection of views represented by politicians and usually solely regarding political topics and therefore of the same domain as party manifestos.

Lastly, both were compared against each other. Hence, the pursued approach covers the following three steps, each conducted using the statistical programming language *R* and subsequently covered in detail:

1. Processing of parties' manifestos
2. Processing of politicians' speeches
3. Comparing manifestos and speeches

Respective lines in the appended code will be referenced in brackets [].

3.1 Processing of manifestos [27-61]

As stated before, the content of the parties' manifestos for the latest election was chosen as a measure for their stances. Luckily, the *Manifesto Project* (Burst et al., 2020) provides annotated manifestos for parties of several countries over a time span of many years. Therefore, their *R*-package and API were used to download the manifestos in question. Those being manifestos from the last election in September, 2017 of all parties currently being part of the German parliament (*AfD*, *Bündnis 90/Die Grünen*, *CDU/CSU*, *DIE LINKE*, *FDP*, *SPD*).

3.1.1 Preparation [36-51]

To permit further analysis, the downloaded manifestos were first manipulated the following way:

1. Removal of non-alphabetic characters
2. Conversion of every character to lowercase
3. Removal of stopwords
(words without contextual relevance like pronouns or filler words)

4. Removal of unnecessary whitespace
(e.g. more than one whitespace between two words)
5. Stemming
(transforming of words into their meaningful parts,
e.g. parliamentarian → parliament)

3.1.2 Computation of TF-IDF scores [53-61]

To be able to characterize and later compare the text documents, *Term Frequency Inverse Document Frequency (TF-IDF)* scores were used. These scores represent the frequency of every term appearing in a document normalized by the length of the document (*Term Frequency*) and weighted by the frequency over all documents being considered (*Inverse Document Frequency*). For this study, that is the frequency of a term in a manifesto normalized by the length of that manifesto and weighted by the frequency of that term over all six manifestos.

Because the manifestos provided by the *Manifesto Project* are split into annotated (quasi-)sentences, these were first merged (per manifesto) and then transformed into a *tm*-corpus, from which the TF-IDF matrix can be built.

3.2 Processing of speeches [63-290]

All speeches given in the german parliament during the current legislative period were used to provide an estimation of views actively represented by german parliamentarians.

3.2.1 Web scraping [65-113]

Besides being most relevant for gaining insights in current german politics, using speeches from the ongoing legislative period provided the advantage, that the respective parliament protocols containing these speeches are available for download as annotated XML files from the german parliament's website (Deutscher Bundestag, 2021), whereas protocols from last periods are only available as plain text.

As the link to these XML files are only dynamically loaded on user interaction, the *R* package *RSelenium* was used, which provides an implementation of *Selenium* for dynamic web scraping. It turned out, that this wouldn't have been necessary after all as the links are actually not unloaded once the next ones are loaded. Therefore, going through the dynamic content manually until all links are loaded would have sufficed. But because the code was already written, the automatic approach was kept being used. That consisted of clicking a button to load new links (which hide the ones previously loaded) and stopping once that button is greyed out, signaling that the end of the available data has been reached.

Once the links were loaded, they were extracted using *XPath* and then used to download the respective XML files of parliament protocols.

3.2.2 Extraction of speeches [115-216]

To get to each speech and assign it to the respective politician holding the speech - the speaker - every downloaded XML file was inspected, again using *XPath*. That proved to be quite difficult, because the XML files provided by the German parliament are designed using a consistent but rather unstructured schema, especially when it comes to spoken content. That is, though tags for comments are unique (**kommentar**), **p**-tags for spoken text by the current speaker are indistinguishable from those by the chairman or by interposing parliamentarian.

Nevertheless, interruptions by the chairman are denoted by preceding **name** tags and interruptions by interposing parliamentarians are preceded by **redner** tags inheriting different **id** tags than the **redner** tags for the actual speaker. In consequence, all **p** tags between **redner** tags of the actual speaker and **redner** tags of an interposing parliamentarian or **name** tags of the chairman resemble actual text of the ongoing speech and were hence extracted using the following rule:

1. **p** tags containing actual speech after the first **redner** tag by the speaker should have one of that **redner** tags before them and all interrupting tags after them.
2. **p** tags containing actual speech after the second **redner** tag by the speaker should have two of that **redner** tags before them and all interrupting tags but one after them.
3. And so on.

After extraction, these **p** tags were merged and assigned to the respective speaker. That resulted in a list of speeches categorized under the politician holding that speech and a separate list containing all speakers (politicians) and their names, unique IDs and party membership (the latter also extracted from the protocols and needed to later compare the speeches with the respective manifestos).

3.2.3 Preparation [218-290]

In a next step, the resulted lists were cleared of mistakes inherent in the protocols:

Duplicates [225-243] In some cases, speakers were inconsistently denoted by additionally naming their middle-names or titles. By filtering out all speakers with the same last names, the duplicates were identifiable and subsequently merged by hand.

Missing parties [245-267] Because ministers are not members of factions, they are not denoted with their party in the parliamentary protocols. Since this term study is about parties and not factions, they still are of interest and to be included in the analysis. Thus, to insert these missing party memberships, the needed information was extracted using *XPath* from the core data of all german parliamentarians. This dataset is again available as a single XML file on the same website the protocols were scraped from (Deutscher Bundestag, 2021).

Omitting unusable data [269-273] Speakers still without a listed party membership (e.g. independent parliamentarians) were removed from the data together with their speeches.

Final preparation [278-284] Using the same procedure as mentioned earlier for the manifestos (section 3.1.1), the speeches were finally manipulated for analysis.

3.2.4 Computation of TF-IDF scores [286-290]

Using the same method as for the manifestos (section 3.1.2), a TF-IDF matrix for every speaker was computed, again first merging all single speeches into one string.

3.3 Comparison of manifestos and speeches [292-344]

3.3.1 Preparation [294-303]

Before the two TF-IDF matrices could be compared with each other, both were manipulated in that way, that they only contained columns resembling terms that were present in both the manifestos and the speeches (looking at all manifestos, respectively speeches).

3.3.2 Analysis [305-344]

To compare each row of the manifesto matrix (resembling the TF-IDF scores per party manifesto) with each row of the speeches matrix (resembling the TF-IDF scores per speaker), correlations between the respective rows were computed using cosine similarity $\cos(\theta)$.

4 Results

Cosine similarity ranges from -1 to 1 with a value of $\cos(\theta) = -1$ indicating perfect negative correlation, of $\cos(\theta) = 1$ perfect positive correlation and of $\cos(\theta) = 0$ no correlation. The results with respect to each speaker and each party are shown in the

appendix, Table 4. Notice, that *Grüne* equals *Bündnis 90/Die Grünen*, *Linke* equals *DIE LINKE* and *Union* equals *CDU/CSU*.

As we can see, the cosine similarities are quite small and often close to zero. It has to be kept in mind though, that this term study only wants to present a first approach to the matter and improvements to the methodology can be made (see Discussion, section 5). If we therefore look at the values relatively to the maximum ($\cos(\theta) = 0.34$ for Ulla Ihnen with her own party, FDP) and minimum ($\cos(\theta) = 0$ for several politicians), we are able to draw careful conclusions (without the claim of validity), to get a first look at possible mechanisms underlying the data.

To do so, we can have look at the average similarities of all members per party with the parties' manifestos in Table 1. Additionally, the last column lists the average similarity between the members of a party and all other parties, not being the own.

Furthermore, Table 2 lists the top and bottom ten politicians with respect to the similarity with their own party and Table 3 with respect to the average similarity with all the other parties.

Members of	Grüne	Linke	SPD	FDP	Union	AfD	Average with other parties
Grüne	0.13	0.07	0.09	0.04	0.07	0.05	0.07
Linke	0.10	0.13	0.09	0.03	0.06	0.05	0.07
SPD	0.09	0.07	0.11	0.04	0.07	0.05	0.06
FDP	0.09	0.06	0.09	0.13	0.07	0.05	0.07
Union	0.09	0.06	0.09	0.04	0.08	0.05	0.06
AfD	0.10	0.08	0.08	0.04	0.07	0.09	0.08

Table 1: Average cosine similarities between party members and parties.

5 Discussion

5.1 Interpretation of the results

Looking at Table 1, we see that in average, the members of a party are more similar to their own parties, than to the other ones. This is supported by the overall average of similarity between politicians and their own party ($\cos(\theta) = 0.10$) being higher than the overall average of similarity between politicians and the other parties ($\cos(\theta) = 0.07$). Therefore, though there seem to be deviations by politicians from their parties, the similarities prevail them.

Name	$\cos(\theta)$	Name	$\cos(\theta)$
Ihnen, Ulla (FDP)	0.34	Lindner, Christian (FDP)	0.14
Strasser, Benjamin (FDP)	0.30	Merkel, Angela (Union)	0.13
Löttsch, Gesine (Linke)	0.30	Löttsch, Gesine (Linke)	0.13
Nölke, Matthias (FDP)	0.25	Strasser, Benjamin (FDP)	0.13
Seestern-Pauly, Matthias (FDP)	0.25	Lindh, Helge (SPD)	0.13
Klein, Karsten (FDP)	0.25	Teuteberg, Linda (FDP)	0.13
Kuhle, Konstantin (FDP)	0.24	Kuhle, Konstantin (FDP)	0.13
Hacker, Thomas (FDP)	0.24	Ullrich, Volker (Union)	0.13
Klinge, Marcel (FDP)	0.23	Göring-Eckardt, Katrin (Grüne)	0.13
Kulitz, Alexander (FDP)	0.23	Straetmanns, Friedrich (Linke)	0.13
Stübgen, Michael (Union)	0.02	Büttner, Matthias (AfD)	0.02
Gienger, Eberhard (Union)	0.02	Müller, Michael (SPD)	0.02
Wissing, Volker (FDP)	0.02	Laumann, Karl-Josef (Union)	0.02
Büttner, Matthias (AfD)	0.02	Neumann, Christoph (AfD)	0.02
Laumann, Karl-Josef (Union)	0.01	Schulz, Jimmy (FDP)	0.02
Schröder, Ole (Union)	0.01	Schröder, Ole (Union)	0.02
Neumann, Christoph (AfD)	0.01	Pinkwart, Andreas (FDP)	0.02
Kelber, Ulrich (SPD)	0.01	Friedrich, Hans-Peter (Union)	0.01
Böhmer, Maria (Union)	0.00	Kelber, Ulrich (SPD)	0.01
Friedrich, Hans-Peter (Union)	0.00	Böhmer, Maria (Union)	0.00

Table 2: Top and bottom ten politicians regarding cosine similarity with own party.

Table 3: Top and bottom ten politicians regarding average cosine similarity with other parties.

Interestingly, whereas all party members from *Bündnis 90/Die Grünen*, *DIE LINKE*, *SPD* and *FDP* are most similar to their own parties, members from *CDU/CSU* and *AfD* are not. Furthermore, the average of similarity for party members not belonging to *AfD* show exactly the same value of $\cos(\theta) = 0.05$. One could interpret, that this is an indicator for the *AfD* representing mere extreme values or for all the other parties showing equally strong effort to distance themselves from the *AfD* and exclude them from the parliamentary community.

Having a look at Table 2, we see that, except for one politician, the top ten politicians are all members of *FDP*. Together with the fact, that *FDP* is among the parties with the highest inner party similarity ($\cos(\theta) = 0.14$, Table 1), one could say, that *FDP* is the party with the most party line consistent politicians. It is noticeable though, that their party leader *Christian Lindner* is the politician being on average most similar to other

parties ($\cos(\theta) = 0.14$, Table 3) while showing a rather mediocre similarity with his own party ($\cos(\theta) = 0.11$, Table 4).

Additionally, chancellor *Angela Merkel* being second in place regarding the average similarity to other parties ($\cos(\theta) = 0.13$) supports the probably widely supported view of her being very good in adjusting to other parties and keeping a certain amount of flexibility in her political decisions to secure power (Schnee, 2019).

5.2 Methodological evaluation

As mentioned before, drawing conclusions from the results lacks reliability and validity: On the one hand, one manifesto per party is hardly enough to extract the importance of terms for the respective parties' stances. The same holds for the politicians, where the dataset often yields only small numbers of speeches per politician (sometimes as little as 1). On the other hand is it hard to base a party's or a politician's stance on the importance of terms based on their frequency. But then again, for an automatic approach like the one pursued here, there seem to be hardly any alternative.

To resolve at least the first issue, other publications of the parties as well as other speeches or interviews outside of the german parliament could additionally be used for computing the TF-IDF scores. Also, TF-IDF scores could be computed separately for specific topics being treated by each (quasi-)sentence¹ in a text. More specifically, the *Manifesto Project* (Burst et al., 2020) provides a coding which assigns each (quasi-)sentence to a code, resembling categories of topics (and sometimes even the attitude towards that specific topic) that (quasi-)sentence expresses. Adapting those codings to all other texts used for analysis could result in much clearer results. Formerly this method was intended to be used in the current study but proved to be too complex for the scope of this work.

In addition, inspection of the processed texts showed that the stop word list used needs further refinement. That is, like in every specific domain, political texts have the need of specific political stop words getting removed in that way, that words like *parliament* or *politician* might not carry importance for the text, whereas *Europe* would. Also, the stemming algorithm often failed to merge semantically familiar words (e.g. *ablehnung* and *ablehnungen*). A more refined stemming dictionary would probably greatly improve the reliability of the analysis and yield better results.

Finally, to draw actual conclusions from correlations as a similarity measure, inferential statistics should be used to investigate the influence of party membership on the term similarity between politicians' and parties' texts.

With those issues resolved, the presented methodology would hopefully be able to act as a solid base for several more research questions. That is, the computed TF-IDF

¹Quasi-sentences are parts of sentences representing an own separate concept or covering an own separate topic.

scores could be used to compare shifts in the use of words or the topics covered by single politicians or groups of politicians (party, faction etc.) over several time periods or between the politicians, respectively the groups of politicians.

6 Conclusion

The results show that, while politicians do differ from their parties stances, these deviations are on average noticeably smaller than the similarity with their own party. Nevertheless, suprising results regarding specific parties and specific politicians could be observed. With some more refinement, the automatic approach that was used could furthermore provide a solid base for future actual scientific research.

References

- Burst, T., Krause, W., Lehmann, P., Lewandowski, J., MatthieSS, T., Merz, N., ... Zehnter, L. (2020). *Manifesto Corpus Version 2020-2*. Berlin: WZB Berlin Social Science Center.
- Deutscher Bundestag. (2021, April). *Open data*. <https://www.bundestag.de/services/opendata>.
- Schnee, C. (2019). Sticking to her guns or going with the flow: assessing rigidity and flexibility in angela merkels political decision making. *German Politics and Society*, 37(1), 24–46.

Appendix

Table 4: Cosine similarities with respect to each speaker and each party

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Achelwilm, Doris (Linke)	0.13	0.14	0.13	0.05	0.06	0.09	0.10
Aggelidis, Grigorios (FDP)	0.08	0.06	0.10	0.13	0.07	0.04	0.08
Akbulut, Gökay (Linke)	0.13	0.16	0.13	0.04	0.06	0.10	0.10
Albani, Stephan (Union)	0.08	0.06	0.12	0.04	0.09	0.04	0.07
Ali, Amira Mohamed (Linke)	0.14	0.17	0.10	0.03	0.04	0.06	0.09
Alt, Renata (FDP)	0.07	0.04	0.07	0.14	0.05	0.03	0.07
Altenkamp, Norbert Maria (Union)	0.09	0.05	0.11	0.04	0.09	0.04	0.07
Altmaier, Peter (Union)	0.13	0.08	0.15	0.06	0.18	0.06	0.11
Amthor, Philipp (Union)	0.14	0.10	0.13	0.06	0.11	0.14	0.11
Amtsberg, Luise (Grüne)	0.14	0.08	0.09	0.04	0.06	0.07	0.08
Andreae, Kerstin (Grüne)	0.11	0.05	0.09	0.03	0.07	0.03	0.06
Annen, Niels (SPD)	0.10	0.07	0.12	0.04	0.08	0.04	0.08
Arndt-Brauer, Ingrid (SPD)	0.08	0.05	0.10	0.05	0.05	0.04	0.06
Aschenberg-Dugnus, Christine (FDP)	0.09	0.07	0.10	0.09	0.07	0.05	0.08
Auernhammer, Artur (Union)	0.13	0.03	0.04	0.02	0.04	0.02	0.05
Aumer, Peter (Union)	0.10	0.09	0.15	0.05	0.11	0.07	0.09
Bach, Bela (SPD)	0.05	0.03	0.05	0.02	0.05	0.03	0.04
Badum, Lisa (Grüne)	0.20	0.06	0.08	0.03	0.07	0.04	0.08
Baehrens, Heike (SPD)	0.08	0.07	0.09	0.04	0.06	0.04	0.06
Baerbock, Annalena (Grüne)	0.12	0.08	0.09	0.04	0.05	0.04	0.07
Bahr, Ulrike (SPD)	0.10	0.07	0.14	0.04	0.07	0.04	0.08
Bär, Dorothee (Union)	0.09	0.05	0.08	0.04	0.11	0.04	0.07
Baradari, Nezhahat (SPD)	0.07	0.04	0.06	0.02	0.05	0.03	0.04
BareiSS, Thomas (Union)	0.07	0.04	0.07	0.03	0.07	0.02	0.05
Barley, Katarina (SPD)	0.09	0.07	0.11	0.03	0.05	0.04	0.07
Barnett, Doris (SPD)	0.08	0.05	0.08	0.03	0.05	0.06	0.06
Barrientos, Simone (Linke)	0.08	0.09	0.08	0.03	0.05	0.05	0.06
Bartels, Hans-Peter (SPD)	0.05	0.04	0.06	0.02	0.04	0.03	0.04
Barthle, Norbert (Union)	0.07	0.04	0.05	0.02	0.06	0.02	0.04
Bartke, Matthias (SPD)	0.11	0.10	0.11	0.03	0.07	0.07	0.08
Bartol, Sören (SPD)	0.14	0.09	0.16	0.05	0.14	0.04	0.10
Bartsch, Dietmar (Linke)	0.16	0.21	0.12	0.05	0.13	0.07	0.12
Bas, Bärbel (SPD)	0.10	0.09	0.13	0.05	0.08	0.05	0.08

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Bauer, Nicole (FDP)	0.12	0.06	0.13	0.17	0.08	0.05	0.10
Baumann, Bernd (AfD)	0.14	0.11	0.08	0.04	0.09	0.12	0.10
Bause, Margarete (Grüne)	0.11	0.07	0.10	0.03	0.05	0.04	0.07
Bayaz, Danyal (Grüne)	0.13	0.07	0.13	0.06	0.09	0.04	0.09
Bayram, Canan (Grüne)	0.12	0.11	0.10	0.05	0.06	0.10	0.09
Beeck, Jens (FDP)	0.08	0.07	0.09	0.17	0.06	0.04	0.08
Beek, Olaf in der (FDP)	0.06	0.04	0.08	0.08	0.05	0.04	0.06
Beer, Nicola (FDP)	0.11	0.06	0.10	0.14	0.09	0.04	0.09
Beermann, Maik (Union)	0.10	0.06	0.10	0.06	0.09	0.05	0.08
Bellmann, Veronika (Union)	0.06	0.02	0.02	0.01	0.04	0.02	0.03
Benning, Sybille (Union)	0.09	0.05	0.11	0.03	0.07	0.07	0.07
Berghegger, André (Union)	0.08	0.06	0.10	0.05	0.08	0.09	0.08
Bernhard, Marc (AfD)	0.13	0.07	0.06	0.03	0.07	0.06	0.07
Bernstein, Melanie (Union)	0.09	0.08	0.10	0.03	0.06	0.06	0.07
Bernstiel, Christoph (Union)	0.12	0.10	0.11	0.05	0.08	0.09	0.09
Beutin, Lorenz Gösta (Linke)	0.15	0.13	0.08	0.03	0.06	0.04	0.08
Beyer, Peter (Union)	0.07	0.05	0.09	0.03	0.09	0.04	0.06
Biadacz, Marc (Union)	0.06	0.08	0.08	0.02	0.09	0.05	0.06
Bilger, Steffen (Union)	0.08	0.04	0.06	0.02	0.06	0.03	0.05
Binding, Lothar (SPD)	0.12	0.08	0.11	0.06	0.09	0.08	0.09
Birkwald, Matthias W. (Linke)	0.06	0.14	0.07	0.02	0.05	0.05	0.06
Bleck, Andreas (AfD)	0.13	0.05	0.06	0.03	0.06	0.06	0.07
Bleser, Peter (Union)	0.07	0.04	0.07	0.03	0.06	0.03	0.05
Bluhm-Förster, Heidrun (Linke)	0.13	0.16	0.10	0.04	0.09	0.04	0.09
Bluhm, Heidrun (Linke)	0.12	0.14	0.10	0.03	0.08	0.04	0.09
Boehringer, Peter (AfD)	0.07	0.08	0.06	0.05	0.05	0.16	0.08
Böhmer, Maria (Union)	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Brackmann, Norbert (Union)	0.03	0.01	0.04	0.02	0.05	0.02	0.03
Brand, Michael (Union)	0.10	0.08	0.09	0.06	0.09	0.06	0.08
Brandenburg, Jens (FDP)	0.09	0.06	0.11	0.15	0.06	0.04	0.08
Brandenburg, Mario (FDP)	0.09	0.05	0.09	0.18	0.08	0.04	0.09
Brandl, Reinhard (Union)	0.08	0.06	0.09	0.03	0.08	0.05	0.06
Brandner, Stephan (AfD)	0.16	0.12	0.11	0.06	0.10	0.18	0.12
Brandt, Michel (Linke)	0.09	0.11	0.06	0.01	0.03	0.03	0.06
Brantner, Franziska (Grüne)	0.15	0.09	0.10	0.06	0.09	0.08	0.10
Brauksiepe, Ralf (Union)	0.04	0.03	0.04	0.02	0.05	0.02	0.03
Braun, Helge (Union)	0.08	0.05	0.08	0.04	0.09	0.04	0.06

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Braun, Jürgen (AfD)	0.12	0.11	0.07	0.04	0.07	0.08	0.08
Brecht, Eberhard (SPD)	0.07	0.09	0.09	0.03	0.06	0.07	0.07
Breher, Silvia (Union)	0.09	0.05	0.10	0.03	0.06	0.04	0.06
Brehm, Sebastian (Union)	0.12	0.10	0.16	0.07	0.14	0.08	0.11
Brehmer, Heike (Union)	0.05	0.04	0.05	0.02	0.08	0.03	0.04
Breymaier, Leni (SPD)	0.10	0.08	0.09	0.03	0.05	0.06	0.07
Brinkhaus, Ralph (Union)	0.14	0.09	0.14	0.06	0.14	0.06	0.10
Brodesser, Carsten (Union)	0.05	0.04	0.08	0.05	0.05	0.05	0.05
Brugger, Agnieszka (Grüne)	0.15	0.09	0.12	0.04	0.07	0.05	0.09
Brunner, Karl-Heinz (SPD)	0.14	0.11	0.17	0.06	0.09	0.09	0.11
Bubendorfer-Licht, Sandra (FDP)	0.07	0.07	0.05	0.04	0.05	0.05	0.05
Buchholz, Christine (Linke)	0.08	0.13	0.07	0.03	0.06	0.07	0.07
Budde, Katrin (SPD)	0.12	0.10	0.09	0.06	0.09	0.05	0.08
Bühl, Marcus (AfD)	0.06	0.04	0.07	0.03	0.05	0.06	0.05
Bull-Bischoff, Birke (Linke)	0.08	0.09	0.11	0.04	0.05	0.05	0.07
Bürgermeister, Carsten Sieling, (Bre- men)	0.04	0.04	0.03	0.01	0.03	0.01	0.03
Burkert, Martin (SPD)	0.07	0.04	0.06	0.02	0.06	0.02	0.04
Buschmann, Marco (FDP)	0.12	0.09	0.11	0.12	0.10	0.10	0.11
Busen, Karlheinz (FDP)	0.08	0.03	0.05	0.07	0.05	0.05	0.05
Büttner, Matthias (AfD)	0.03	0.02	0.02	0.01	0.04	0.02	0.02
Bystron, Petr (AfD)	0.08	0.08	0.08	0.02	0.07	0.07	0.07
Castellucci, Lars (SPD)	0.15	0.09	0.14	0.06	0.10	0.08	0.10
Cezanne, Jörg (Linke)	0.13	0.13	0.14	0.05	0.09	0.07	0.10
Christmann, Anna (Grüne)	0.16	0.06	0.11	0.04	0.09	0.03	0.08
Chrupalla, Tino (AfD)	0.14	0.10	0.11	0.05	0.11	0.10	0.10
Connemann, Gitta (Union)	0.14	0.07	0.10	0.04	0.12	0.05	0.09
Cotar, Joana (AfD)	0.12	0.08	0.10	0.06	0.09	0.10	0.09
Cronenberg, Carl-Julius (FDP)	0.10	0.10	0.12	0.18	0.08	0.06	0.11
Curio, Gottfried (AfD)	0.13	0.09	0.09	0.04	0.08	0.14	0.10
Dadelen, Sevim (Linke)	0.08	0.10	0.07	0.04	0.05	0.04	0.06
Dahmen, Janosch (Grüne)	0.07	0.05	0.07	0.03	0.04	0.03	0.05
Daldrup, Bernhard (SPD)	0.11	0.10	0.13	0.04	0.11	0.07	0.09
Damerow, Astrid (Union)	0.08	0.05	0.07	0.03	0.08	0.03	0.06
Dassler, Britta Katharina (FDP)	0.05	0.03	0.06	0.19	0.04	0.01	0.06
de Maizière, Thomas (Union)	0.05	0.03	0.05	0.02	0.04	0.02	0.03
De Masi, Fabio (Linke)	0.11	0.14	0.10	0.04	0.06	0.08	0.09

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
De Ridder, Daniela (SPD)	0.13	0.09	0.13	0.06	0.09	0.08	0.09
de Vries, Christoph (Union)	0.10	0.07	0.11	0.05	0.08	0.09	0.08
de Vries, Kees (Union)	0.09	0.04	0.06	0.02	0.04	0.02	0.04
Dehm, Diether (Linke)	0.13	0.18	0.10	0.03	0.06	0.08	0.10
Deligöz, Ekin (Grüne)	0.13	0.08	0.12	0.04	0.09	0.05	0.08
Diaby, Karamba (SPD)	0.10	0.11	0.15	0.05	0.08	0.06	0.09
Dilcher, Esther (SPD)	0.09	0.07	0.12	0.04	0.06	0.09	0.08
Dittmar, Sabine (SPD)	0.10	0.09	0.13	0.06	0.09	0.06	0.09
Djir-Sarai, Bijan (FDP)	0.09	0.06	0.10	0.06	0.07	0.04	0.07
Dobrindt, Alexander (Union)	0.12	0.09	0.13	0.05	0.13	0.07	0.10
Domscheit-Berg, Anke (Linke)	0.13	0.10	0.10	0.05	0.06	0.06	0.08
Donth, Michael (Union)	0.11	0.06	0.08	0.03	0.09	0.03	0.07
Dörner, Katja (Grüne)	0.12	0.08	0.13	0.04	0.05	0.05	0.08
Dött, Marie-Luise (Union)	0.09	0.04	0.07	0.03	0.06	0.03	0.05
Droese, Siegbert (AfD)	0.05	0.03	0.03	0.02	0.05	0.07	0.04
Dröge, Katharina (Grüne)	0.16	0.08	0.10	0.05	0.07	0.05	0.09
Dürr, Christian (FDP)	0.09	0.07	0.12	0.15	0.11	0.07	0.10
Durz, Hansjörg (Union)	0.14	0.07	0.15	0.07	0.13	0.06	0.10
Ebbing, Hartmut (FDP)	0.07	0.05	0.09	0.08	0.05	0.05	0.07
Ebner, Harald (Grüne)	0.15	0.05	0.06	0.02	0.05	0.04	0.06
Ehrhorn, Thomas (AfD)	0.12	0.11	0.08	0.04	0.07	0.10	0.09
Elsner von Gronow, Berengar (AfD)	0.06	0.06	0.07	0.02	0.05	0.06	0.05
Erndl, Thomas (Union)	0.09	0.07	0.13	0.03	0.08	0.06	0.08
Ernst, Klaus (Linke)	0.13	0.12	0.11	0.05	0.08	0.06	0.09
Esdar, Wiebke (SPD)	0.09	0.07	0.15	0.05	0.08	0.06	0.08
Esken, Saskia (SPD)	0.11	0.07	0.12	0.05	0.06	0.05	0.08
Espendiller, Michael (AfD)	0.09	0.06	0.09	0.05	0.08	0.08	0.08
Faber, Marcus (FDP)	0.06	0.04	0.07	0.17	0.05	0.03	0.07
Fahimi, Yasmin (SPD)	0.08	0.07	0.14	0.04	0.06	0.04	0.07
Färber, Hermann (Union)	0.10	0.05	0.06	0.03	0.05	0.04	0.05
Fechner, Johannes (SPD)	0.10	0.09	0.12	0.04	0.08	0.06	0.08
Feiler, Uwe (Union)	0.08	0.06	0.11	0.04	0.09	0.06	0.07
Felgentreu, Fritz (SPD)	0.07	0.06	0.09	0.03	0.07	0.06	0.06
Felser, Peter (AfD)	0.10	0.04	0.06	0.03	0.07	0.04	0.06
Ferlemann, Enak (Union)	0.04	0.03	0.05	0.02	0.04	0.02	0.03
Ferschl, Susanne (Linke)	0.10	0.21	0.11	0.03	0.06	0.05	0.09
Fischer, Axel E. (Union)	0.06	0.05	0.09	0.03	0.08	0.05	0.06

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Flachsbarth, Maria (Union)	0.11	0.05	0.10	0.03	0.06	0.03	0.06
Föst, Daniel (FDP)	0.09	0.07	0.07	0.15	0.07	0.04	0.08
Franke, Edgar (SPD)	0.06	0.06	0.09	0.03	0.05	0.04	0.06
Freese, Ulrich (SPD)	0.05	0.04	0.05	0.01	0.04	0.02	0.04
Frei, Thorsten (Union)	0.16	0.11	0.16	0.06	0.13	0.09	0.12
Freihold, Brigitte (Linke)	0.07	0.07	0.08	0.02	0.04	0.04	0.05
Freitag, Dagmar (SPD)	0.02	0.02	0.07	0.02	0.02	0.01	0.03
Freudenstein, Astrid (Union)	0.05	0.07	0.09	0.03	0.05	0.02	0.05
Fricke, Otto (FDP)	0.11	0.09	0.10	0.06	0.09	0.07	0.09
Friedhoff, Dietmar (AfD)	0.12	0.06	0.08	0.03	0.06	0.06	0.07
Friedrich, Hans-Peter (Union)	0.01	0.01	0.01	0.01	0.00	0.00	0.01
Friesen, Anton (AfD)	0.10	0.09	0.11	0.05	0.09	0.08	0.08
Frieser, Michael (Union)	0.10	0.07	0.10	0.05	0.07	0.09	0.08
Frohnmaier, Markus (AfD)	0.12	0.09	0.08	0.03	0.06	0.08	0.08
Frömming, Götz (AfD)	0.10	0.09	0.11	0.05	0.10	0.11	0.09
Fuchtel, Hans-Joachim (Union)	0.07	0.03	0.07	0.02	0.06	0.02	0.05
Gabelmann, Sylvia (Linke)	0.03	0.06	0.04	0.03	0.02	0.03	0.03
Gabriel, Sigmar (SPD)	0.07	0.05	0.07	0.02	0.04	0.03	0.05
Gädechens, Ingo (Union)	0.09	0.06	0.09	0.03	0.10	0.05	0.07
Gastel, Matthias (Grüne)	0.08	0.03	0.05	0.02	0.05	0.02	0.04
Gauland, Alexander (AfD)	0.15	0.11	0.11	0.06	0.12	0.12	0.11
Gebhart, Thomas (Union)	0.05	0.05	0.07	0.03	0.06	0.02	0.05
Gehring, Kai (Grüne)	0.12	0.07	0.12	0.04	0.07	0.05	0.08
Gehrke, Axel (AfD)	0.07	0.07	0.07	0.05	0.05	0.06	0.06
Gelbhaar, Stefan (Grüne)	0.13	0.06	0.06	0.02	0.07	0.03	0.06
Gerdes, Michael (SPD)	0.09	0.12	0.14	0.03	0.07	0.04	0.08
Gerig, Alois (Union)	0.12	0.04	0.05	0.02	0.06	0.03	0.05
Gerster, Martin (SPD)	0.08	0.05	0.10	0.03	0.08	0.03	0.06
Gienger, Eberhard (Union)	0.02	0.02	0.06	0.02	0.02	0.01	0.03
Glaser, Albrecht (AfD)	0.10	0.09	0.11	0.07	0.11	0.16	0.11
Glöckner, Angelika (SPD)	0.10	0.09	0.14	0.04	0.08	0.05	0.08
Gminder, Franziska (AfD)	0.12	0.07	0.10	0.04	0.07	0.09	0.08
Gnodtke, Eckhard (Union)	0.03	0.04	0.05	0.02	0.06	0.03	0.04
Gohlke, Nicole (Linke)	0.07	0.09	0.08	0.03	0.04	0.04	0.06
Göring-Eckardt, Katrin (Grüne)	0.20	0.13	0.13	0.09	0.13	0.07	0.13
Gottschalk, Kay (AfD)	0.11	0.08	0.10	0.05	0.09	0.11	0.09
Graf Lambsdorff, Alexander (FDP)	0.09	0.06	0.08	0.17	0.07	0.06	0.09

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Gremmels, Timon (SPD)	0.13	0.07	0.12	0.04	0.08	0.05	0.08
Griese, Kerstin (SPD)	0.08	0.07	0.12	0.03	0.07	0.04	0.07
Groden-Kranich, Ursula (Union)	0.10	0.07	0.11	0.04	0.10	0.06	0.08
Gröhe, Hermann (Union)	0.09	0.07	0.14	0.05	0.11	0.05	0.08
Gröhler, Klaus-Dieter (Union)	0.07	0.06	0.09	0.05	0.08	0.04	0.06
Gronow, Berengar Elsner von (AfD)	0.05	0.03	0.04	0.01	0.04	0.05	0.04
GroSS, Michael (SPD)	0.08	0.07	0.10	0.03	0.05	0.03	0.06
Grosse-Brömer, Michael (Union)	0.09	0.06	0.08	0.03	0.09	0.07	0.07
Grotelüschen, Astrid (Union)	0.06	0.04	0.09	0.05	0.10	0.03	0.06
Grötsch, Uli (SPD)	0.11	0.07	0.12	0.08	0.08	0.07	0.09
Grübel, Markus (Union)	0.05	0.04	0.05	0.02	0.07	0.03	0.04
Grund, Manfred (Union)	0.07	0.06	0.07	0.03	0.07	0.04	0.06
Grundl, Erhard (Grüne)	0.09	0.07	0.11	0.04	0.08	0.05	0.08
Grundmann, Oliver (Union)	0.11	0.05	0.06	0.02	0.07	0.04	0.06
Grütters, Monika (Union)	0.06	0.05	0.09	0.03	0.06	0.03	0.05
Güntzler, Fritz (Union)	0.08	0.06	0.10	0.05	0.09	0.05	0.07
Gutting, Olav (Union)	0.07	0.05	0.10	0.06	0.09	0.06	0.07
Gysi, Gregor (Linke)	0.08	0.08	0.09	0.03	0.06	0.04	0.06
Haase, Christian (Union)	0.12	0.06	0.10	0.04	0.10	0.08	0.09
Hacker, Thomas (FDP)	0.11	0.08	0.12	0.24	0.09	0.05	0.11
Hagedorn, Bettina (SPD)	0.06	0.05	0.08	0.03	0.06	0.04	0.06
Hagl-Kehl, Rita (SPD)	0.07	0.06	0.09	0.03	0.04	0.03	0.05
Hahn, André (Linke)	0.13	0.19	0.13	0.07	0.09	0.09	0.12
Hahn, Florian (Union)	0.11	0.10	0.13	0.05	0.13	0.10	0.10
Hajduk, Anja (Grüne)	0.15	0.08	0.11	0.05	0.10	0.05	0.09
Hakverdi, Metin (SPD)	0.10	0.08	0.12	0.05	0.07	0.07	0.08
Hampel, Armin-Paulus (AfD)	0.11	0.08	0.11	0.04	0.09	0.08	0.09
Hänsel, Heike (Linke)	0.10	0.11	0.10	0.03	0.05	0.04	0.07
Harbarth, Stephan (Union)	0.09	0.05	0.09	0.05	0.10	0.10	0.08
Harder-Kühnel, Mariana Iris (AfD)	0.08	0.07	0.08	0.02	0.05	0.11	0.07
Hardt, Jürgen (Union)	0.12	0.07	0.12	0.05	0.11	0.06	0.09
Hartmann, Sebastian (SPD)	0.11	0.08	0.15	0.04	0.10	0.05	0.09
Hartmann, Verena (AfD)	0.09	0.07	0.04	0.02	0.06	0.06	0.06
Hartwig, Roland (AfD)	0.10	0.09	0.11	0.03	0.07	0.09	0.08
HaSSelmann, Britta (Grüne)	0.13	0.09	0.10	0.05	0.10	0.12	0.10
Hauer, Matthias (Union)	0.06	0.05	0.08	0.04	0.06	0.06	0.06
Haug, Jochen (AfD)	0.04	0.05	0.06	0.02	0.03	0.07	0.05

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Hauptmann, Mark (Union)	0.11	0.08	0.10	0.07	0.10	0.05	0.09
Hebner, Martin (AfD)	0.09	0.07	0.08	0.03	0.06	0.08	0.07
Heidenblut, Dirk (SPD)	0.07	0.06	0.09	0.04	0.06	0.04	0.06
Heider, Matthias (Union)	0.11	0.07	0.11	0.05	0.11	0.06	0.08
Heidt, Peter (FDP)	0.09	0.05	0.06	0.21	0.05	0.04	0.08
Heil, Hubertus (SPD)	0.11	0.09	0.17	0.05	0.10	0.04	0.09
Heil, Mechthild (Union)	0.07	0.06	0.09	0.03	0.06	0.03	0.06
Heilmann, Thomas (Union)	0.09	0.08	0.08	0.04	0.06	0.06	0.07
Heinrich, Frank (Union)	0.12	0.11	0.12	0.04	0.10	0.06	0.09
Heinrich, Gabriela (SPD)	0.13	0.08	0.12	0.04	0.07	0.05	0.08
Helfrich, Mark (Union)	0.11	0.06	0.07	0.03	0.06	0.04	0.06
Helling-Plahr, Katrin (FDP)	0.10	0.07	0.09	0.11	0.08	0.09	0.09
Hellmich, Wolfgang (SPD)	0.05	0.04	0.06	0.02	0.05	0.02	0.04
Hemmelgarn, Udo Theodor (AfD)	0.09	0.09	0.07	0.03	0.07	0.07	0.07
Hendricks, Barbara (SPD)	0.13	0.08	0.11	0.06	0.10	0.08	0.10
Henke, Rudolf (Union)	0.12	0.11	0.12	0.07	0.10	0.08	0.10
Hennrich, Michael (Union)	0.06	0.05	0.06	0.04	0.06	0.03	0.05
Henrichmann, Marc (Union)	0.12	0.09	0.11	0.06	0.08	0.08	0.09
Herbrand, Markus (FDP)	0.08	0.06	0.09	0.08	0.08	0.08	0.08
Herbst, Torsten (FDP)	0.11	0.06	0.07	0.11	0.07	0.03	0.08
Herd, Waldemar (AfD)	0.04	0.04	0.03	0.01	0.02	0.03	0.03
Herrmann, Lars (AfD)	0.07	0.05	0.06	0.03	0.06	0.06	0.05
Herzog, Gustav (SPD)	0.06	0.03	0.06	0.02	0.05	0.02	0.04
Hess, Martin (AfD)	0.09	0.07	0.07	0.05	0.07	0.09	0.07
Hessel, Katja (FDP)	0.08	0.06	0.10	0.10	0.08	0.05	0.08
HeSSenkemper, Heiko (AfD)	0.08	0.06	0.06	0.02	0.05	0.06	0.06
Heveling, Ansgar (Union)	0.08	0.07	0.10	0.04	0.07	0.10	0.08
Hiller-Ohm, Gabriele (SPD)	0.09	0.09	0.11	0.04	0.08	0.05	0.08
Hilse, Karsten (AfD)	0.18	0.10	0.09	0.04	0.08	0.12	0.10
Hirte, Christian (Union)	0.08	0.12	0.09	0.03	0.10	0.03	0.07
Hirte, Heribert (Union)	0.09	0.07	0.11	0.05	0.06	0.07	0.08
Hitschler, Thomas (SPD)	0.08	0.07	0.12	0.03	0.09	0.04	0.07
Höchst, Nicole (AfD)	0.13	0.10	0.12	0.07	0.09	0.14	0.11
Hocker, Gero Clemens (FDP)	0.11	0.05	0.07	0.05	0.06	0.04	0.06
Höferlin, Manuel (FDP)	0.13	0.08	0.11	0.13	0.09	0.06	0.10
Hoffmann, Alexander (Union)	0.11	0.09	0.12	0.05	0.07	0.09	0.09
Hoffmann, Bettina (Grüne)	0.15	0.04	0.06	0.03	0.05	0.03	0.06

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Hoffmann, Christoph (FDP)	0.12	0.07	0.09	0.12	0.07	0.05	0.09
Hofreiter, Anton (Grüne)	0.22	0.08	0.10	0.04	0.11	0.05	0.10
Högl, Eva (SPD)	0.12	0.09	0.13	0.04	0.08	0.06	0.09
Hohmann, Martin (AfD)	0.10	0.08	0.08	0.03	0.09	0.12	0.08
Höhn, Matthias (Linke)	0.07	0.14	0.08	0.03	0.06	0.05	0.07
Hollnagel, Bruno (AfD)	0.08	0.06	0.05	0.04	0.03	0.10	0.06
Holm, Leif-Erik (AfD)	0.16	0.09	0.10	0.06	0.11	0.10	0.10
Holmeier, Karl (Union)	0.07	0.04	0.10	0.03	0.10	0.03	0.06
Hoppenstedt, Hendrik (Union)	0.04	0.03	0.04	0.02	0.06	0.06	0.04
Houben, Reinhard (FDP)	0.12	0.08	0.11	0.08	0.10	0.05	0.09
Huber, Johannes (AfD)	0.11	0.08	0.10	0.05	0.07	0.10	0.08
Hunko, Andrej (Linke)	0.07	0.09	0.08	0.03	0.06	0.05	0.06
Ihnen, Ulla (FDP)	0.08	0.06	0.07	0.34	0.07	0.04	0.11
in der Beek, Olaf (FDP)	0.07	0.05	0.09	0.05	0.05	0.03	0.06
Irlstorfer, Erich (Union)	0.08	0.07	0.11	0.04	0.09	0.05	0.07
Irmer, Hans-Jürgen (Union)	0.07	0.05	0.06	0.03	0.05	0.04	0.05
Jacobi, Fabian (AfD)	0.08	0.08	0.09	0.05	0.06	0.11	0.08
Janecek, Dieter (Grüne)	0.17	0.07	0.11	0.04	0.11	0.04	0.09
Jarzombek, Thomas (Union)	0.10	0.05	0.07	0.04	0.09	0.04	0.06
Jelpke, Ulla (Linke)	0.13	0.13	0.10	0.04	0.07	0.11	0.10
Jensen, Gyde (FDP)	0.13	0.09	0.12	0.18	0.09	0.06	0.11
Jongen, Marc (AfD)	0.14	0.12	0.13	0.05	0.11	0.16	0.12
Jung, Andreas (Union)	0.11	0.06	0.11	0.05	0.11	0.07	0.09
Jung, Christian (FDP)	0.07	0.04	0.04	0.15	0.07	0.03	0.07
Jung, Ingmar (Union)	0.09	0.07	0.08	0.04	0.07	0.07	0.07
Junge, Frank (SPD)	0.07	0.10	0.09	0.03	0.10	0.05	0.07
Juratovic, Josip (SPD)	0.07	0.05	0.08	0.07	0.07	0.06	0.07
Jurk, Thomas (SPD)	0.08	0.06	0.11	0.03	0.11	0.03	0.07
Kaczmarek, Oliver (SPD)	0.06	0.04	0.11	0.03	0.08	0.03	0.06
Kahrs, Johannes (SPD)	0.09	0.07	0.12	0.04	0.08	0.08	0.08
Kaiser, Elisabeth (SPD)	0.10	0.15	0.13	0.04	0.09	0.08	0.10
Kamann, Uwe (AfD)	0.13	0.08	0.11	0.06	0.12	0.08	0.10
Kappert-Gonther, Kirsten (Grüne)	0.09	0.07	0.07	0.04	0.05	0.04	0.06
Kapschack, Ralf (SPD)	0.06	0.07	0.08	0.02	0.06	0.03	0.05
Karl, Alois (Union)	0.09	0.07	0.09	0.04	0.09	0.08	0.08
Karliczek, Anja (Union)	0.09	0.05	0.14	0.05	0.11	0.04	0.08
Kartes, Torbjörn (Union)	0.09	0.07	0.12	0.05	0.08	0.04	0.08

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Kassner, Kerstin (Linke)	0.08	0.07	0.08	0.03	0.06	0.03	0.06
Katzmarek, Gabriele (SPD)	0.06	0.05	0.10	0.03	0.09	0.03	0.06
Kauder, Volker (Union)	0.08	0.05	0.08	0.04	0.13	0.05	0.07
Kaufmann, Stefan (Union)	0.04	0.03	0.08	0.03	0.05	0.02	0.04
Kekeritz, Uwe (Grüne)	0.13	0.09	0.11	0.04	0.07	0.08	0.09
Kelber, Ulrich (SPD)	0.01	0.01	0.01	0.01	0.00	0.00	0.01
Kemmer, Ronja (Union)	0.07	0.05	0.09	0.03	0.09	0.03	0.06
Kemmerich, Thomas L. (FDP)	0.07	0.10	0.09	0.10	0.08	0.04	0.08
Kessler, Achim (Linke)	0.07	0.16	0.09	0.04	0.06	0.07	0.08
Kestner, Jens (AfD)	0.04	0.04	0.05	0.02	0.06	0.04	0.04
Keul, Katja (Grüne)	0.14	0.09	0.12	0.05	0.08	0.07	0.09
Keuter, Stefan (AfD)	0.11	0.12	0.11	0.06	0.08	0.14	0.10
Kiesewetter, Roderich (Union)	0.08	0.06	0.11	0.04	0.09	0.04	0.07
KieSSling, Michael (Union)	0.11	0.08	0.11	0.04	0.10	0.05	0.08
Kindler, Sven-Christian (Grüne)	0.17	0.09	0.09	0.03	0.09	0.06	0.09
Kippels, Georg (Union)	0.11	0.08	0.12	0.05	0.09	0.07	0.09
Kipping, Katja (Linke)	0.07	0.15	0.05	0.02	0.04	0.03	0.06
Kiziltepe, Cansel (SPD)	0.08	0.08	0.09	0.04	0.06	0.06	0.07
Klare, Arno (SPD)	0.12	0.06	0.07	0.03	0.07	0.04	0.06
Klein-Schmeink, Maria (Grüne)	0.08	0.08	0.11	0.05	0.09	0.04	0.08
Klein, Karsten (FDP)	0.09	0.06	0.12	0.25	0.10	0.06	0.11
Klein, Volkmar (Union)	0.08	0.04	0.07	0.03	0.06	0.04	0.05
Kleinwächter, Norbert (AfD)	0.14	0.11	0.13	0.05	0.11	0.11	0.11
Klingbeil, Lars (SPD)	0.08	0.05	0.08	0.02	0.05	0.02	0.05
Klinge, Marcel (FDP)	0.08	0.07	0.06	0.23	0.07	0.03	0.09
Klößner, Julia (Union)	0.14	0.06	0.09	0.04	0.09	0.04	0.08
Kloke, Katharina (FDP)	0.05	0.04	0.06	0.08	0.03	0.04	0.05
Kluckert, Daniela (FDP)	0.11	0.05	0.07	0.06	0.09	0.03	0.07
Knoerig, Axel (Union)	0.11	0.10	0.14	0.07	0.14	0.05	0.10
Kober, Pascal (FDP)	0.09	0.09	0.11	0.11	0.08	0.06	0.09
Koeppen, Jens (Union)	0.09	0.05	0.07	0.04	0.07	0.05	0.06
Kofler, Bärbel (SPD)	0.08	0.04	0.08	0.02	0.03	0.03	0.05
Köhler, Lukas (FDP)	0.11	0.05	0.08	0.09	0.05	0.04	0.07
Kolbe, Daniela (SPD)	0.11	0.14	0.13	0.04	0.08	0.05	0.09
Komning, Enrico (AfD)	0.14	0.10	0.13	0.06	0.12	0.08	0.10
König, Jörn (AfD)	0.08	0.08	0.09	0.04	0.07	0.08	0.07
Konrad, Carina (FDP)	0.09	0.03	0.06	0.09	0.06	0.03	0.06

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Koob, Markus (Union)	0.09	0.06	0.10	0.03	0.08	0.05	0.07
Körber, Carsten (Union)	0.07	0.05	0.08	0.04	0.09	0.05	0.06
Korkmaz-Emre, Elvan (SPD)	0.10	0.05	0.09	0.03	0.06	0.03	0.06
Korkmaz, Elvan (SPD)	0.10	0.06	0.08	0.04	0.07	0.02	0.06
Korte, Jan (Linke)	0.11	0.12	0.10	0.03	0.08	0.08	0.09
Kotré, Steffen (AfD)	0.12	0.08	0.06	0.04	0.07	0.07	0.08
Kotting-Uhl, Sylvia (Grüne)	0.15	0.06	0.06	0.02	0.05	0.04	0.06
Kraft, Rainer (AfD)	0.17	0.08	0.09	0.05	0.08	0.08	0.09
Kramme, Anette (SPD)	0.03	0.02	0.04	0.02	0.03	0.02	0.03
Kramp-Karrenbauer, Annegret (Union)	0.06	0.05	0.09	0.03	0.08	0.03	0.06
KrauSS, Alexander (Union)	0.09	0.06	0.07	0.03	0.07	0.06	0.06
Krellmann, Jutta (Linke)	0.08	0.14	0.10	0.02	0.04	0.03	0.07
Kretschmer, Michael (Union)	0.04	0.05	0.04	0.02	0.06	0.03	0.04
Krichbaum, Gunther (Union)	0.09	0.05	0.07	0.03	0.07	0.05	0.06
Krings, Günter (Union)	0.10	0.07	0.12	0.06	0.08	0.06	0.08
Krischer, Oliver (Grüne)	0.17	0.07	0.08	0.03	0.07	0.05	0.08
Kruse, Rüdiger (Union)	0.13	0.06	0.10	0.04	0.10	0.04	0.08
Kubicki, Wolfgang (FDP)	0.05	0.04	0.05	0.07	0.04	0.06	0.05
Kuffer, Michael (Union)	0.15	0.10	0.15	0.07	0.13	0.12	0.12
Kuhle, Konstantin (FDP)	0.13	0.08	0.13	0.24	0.09	0.10	0.13
Kühn, Christian (Grüne)	0.11	0.09	0.07	0.02	0.08	0.03	0.07
Kühn, Stephan (Grüne)	0.12	0.06	0.08	0.03	0.07	0.03	0.07
Kühne, Roy (Union)	0.08	0.06	0.07	0.04	0.06	0.03	0.06
Kulitz, Alexander (FDP)	0.03	0.02	0.04	0.23	0.03	0.01	0.06
Künast, Renate (Grüne)	0.18	0.07	0.09	0.03	0.07	0.04	0.08
Kurth, Markus (Grüne)	0.11	0.08	0.11	0.04	0.07	0.05	0.08
Lambrecht, Christine (SPD)	0.14	0.10	0.16	0.07	0.08	0.07	0.10
Lambsdorff, Alexander Graf (FDP)	0.10	0.07	0.11	0.20	0.08	0.05	0.10
Lamers, Karl A. (Union)	0.03	0.03	0.04	0.01	0.05	0.01	0.03
Lämmel, Andreas G. (Union)	0.11	0.08	0.08	0.04	0.09	0.05	0.08
Landgraf, Katharina (Union)	0.08	0.03	0.06	0.02	0.04	0.01	0.04
Lange, Christian (SPD)	0.10	0.07	0.11	0.04	0.07	0.06	0.08
Lange, Ulrich (Union)	0.10	0.05	0.08	0.03	0.11	0.03	0.07
Laumann, Karl-Josef (Union)	0.03	0.03	0.03	0.01	0.01	0.01	0.02
Launert, Silke (Union)	0.09	0.06	0.10	0.04	0.08	0.05	0.07
Lauterbach, Karl (SPD)	0.08	0.07	0.08	0.03	0.07	0.05	0.06
Lay, Caren (Linke)	0.08	0.17	0.07	0.02	0.05	0.04	0.07

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Lazar, Monika (Grüne)	0.08	0.07	0.08	0.03	0.06	0.04	0.06
Lechte, Ulrich (FDP)	0.09	0.07	0.09	0.07	0.07	0.05	0.08
Lehmann, Jens (Union)	0.05	0.03	0.07	0.02	0.05	0.05	0.04
Lehmann, Sven (Grüne)	0.14	0.11	0.09	0.03	0.04	0.05	0.08
Lehmann, Sylvia (SPD)	0.06	0.06	0.06	0.02	0.03	0.05	0.05
Lehrieder, Paul (Union)	0.11	0.07	0.11	0.05	0.09	0.07	0.08
Leidig, Sabine (Linke)	0.12	0.12	0.08	0.03	0.08	0.03	0.08
Leikert, Katja (Union)	0.14	0.08	0.12	0.06	0.12	0.06	0.10
Lemke, Steffi (Grüne)	0.14	0.06	0.07	0.03	0.06	0.05	0.07
Lenkert, Ralph (Linke)	0.17	0.17	0.09	0.04	0.07	0.07	0.10
Lenz, Andreas (Union)	0.11	0.07	0.09	0.05	0.10	0.05	0.08
Leutert, Michael (Linke)	0.09	0.09	0.11	0.04	0.07	0.06	0.08
Leyen, Ursula (Union)	0.07	0.06	0.09	0.03	0.10	0.04	0.06
Lezius, Antje (Union)	0.09	0.09	0.14	0.05	0.11	0.05	0.09
Liebich, Stefan (Linke)	0.11	0.11	0.10	0.04	0.08	0.06	0.08
Lindh, Helge (SPD)	0.17	0.12	0.16	0.07	0.11	0.15	0.13
Lindholz, Andrea (Union)	0.08	0.06	0.09	0.04	0.07	0.09	0.07
Lindner, Christian (FDP)	0.17	0.11	0.16	0.11	0.17	0.10	0.14
Lindner, Tobias (Grüne)	0.12	0.06	0.10	0.03	0.08	0.05	0.07
Link, Michael Georg (FDP)	0.11	0.06	0.11	0.15	0.09	0.06	0.10
Linnemann, Carsten (Union)	0.09	0.05	0.10	0.06	0.10	0.05	0.07
Lips, Patricia (Union)	0.06	0.04	0.07	0.02	0.07	0.03	0.05
Lischka, Burkhard (SPD)	0.06	0.04	0.08	0.02	0.06	0.03	0.05
Löbel, Nikolas (Union)	0.07	0.06	0.08	0.03	0.07	0.05	0.06
Loos, Bernhard (Union)	0.10	0.08	0.10	0.04	0.08	0.05	0.08
Löttsch, Gesine (Linke)	0.15	0.30	0.13	0.05	0.10	0.07	0.13
Lucassen, Rüdiger (AfD)	0.06	0.06	0.08	0.03	0.08	0.07	0.06
Luczak, Jan-Marco (Union)	0.10	0.09	0.11	0.04	0.06	0.06	0.08
Ludwig, Daniela (Union)	0.09	0.04	0.06	0.03	0.07	0.03	0.05
Ludwig, Saskia (Union)	0.06	0.05	0.05	0.02	0.04	0.03	0.04
Lühmann, Kirsten (SPD)	0.10	0.06	0.08	0.03	0.07	0.04	0.06
Luksic, Oliver (FDP)	0.11	0.06	0.06	0.06	0.08	0.04	0.07
Lutze, Thomas (Linke)	0.13	0.12	0.12	0.06	0.08	0.06	0.09
Maag, Karin (Union)	0.07	0.08	0.09	0.05	0.07	0.05	0.07
Maas, Heiko (SPD)	0.12	0.08	0.15	0.05	0.10	0.06	0.09
Mackensen, Isabel (SPD)	0.08	0.04	0.07	0.02	0.04	0.02	0.05
Magnitz, Frank (AfD)	0.11	0.08	0.08	0.03	0.07	0.07	0.07

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Magwas, Yvonne (Union)	0.08	0.06	0.11	0.03	0.08	0.04	0.07
Maier, Jens (AfD)	0.08	0.11	0.09	0.04	0.06	0.09	0.08
Maier, Lothar (AfD)	0.10	0.08	0.11	0.05	0.07	0.08	0.08
Maizière, Thomas (Union)	0.07	0.04	0.08	0.03	0.07	0.05	0.06
Malsack-Winkemann, Birgit (AfD)	0.10	0.07	0.08	0.04	0.07	0.08	0.07
Manderla, Gisela (Union)	0.08	0.07	0.11	0.04	0.09	0.05	0.07
Mannes, Astrid (Union)	0.06	0.07	0.11	0.04	0.08	0.06	0.07
Mansmann, Till (FDP)	0.11	0.09	0.12	0.17	0.08	0.07	0.11
Marks, Caren (SPD)	0.04	0.03	0.06	0.01	0.02	0.01	0.03
Martens, Jürgen (FDP)	0.10	0.08	0.11	0.07	0.06	0.08	0.09
Martin, Dorothee (SPD)	0.06	0.04	0.08	0.02	0.03	0.02	0.04
Mast, Katja (SPD)	0.11	0.08	0.15	0.03	0.07	0.04	0.08
Matschie, Christoph (SPD)	0.11	0.07	0.12	0.04	0.08	0.06	0.08
Mattfeldt, Andreas (Union)	0.07	0.05	0.08	0.03	0.09	0.03	0.06
Mattheis, Hilde (SPD)	0.09	0.07	0.11	0.05	0.06	0.06	0.07
Mayer, Stephan (Union)	0.09	0.06	0.10	0.04	0.08	0.07	0.07
Meiser, Pascal (Linke)	0.10	0.18	0.12	0.04	0.08	0.05	0.09
Meister, Michael (Union)	0.05	0.03	0.08	0.02	0.06	0.03	0.04
Merkel, Angela (Union)	0.17	0.11	0.19	0.07	0.18	0.08	0.13
Metzler, Jan (Union)	0.07	0.05	0.08	0.03	0.07	0.03	0.06
Meyer, Christoph (FDP)	0.09	0.06	0.09	0.06	0.08	0.06	0.07
Miazga, Corinna (AfD)	0.06	0.04	0.05	0.04	0.04	0.07	0.05
Michelbach, Hans (Union)	0.09	0.07	0.12	0.06	0.12	0.08	0.09
Middelberg, Mathias (Union)	0.11	0.09	0.11	0.05	0.10	0.08	0.09
Miersch, Matthias (SPD)	0.13	0.06	0.10	0.03	0.07	0.04	0.07
Mihalic, Irene (Grüne)	0.14	0.07	0.12	0.06	0.09	0.06	0.09
Mindrup, Klaus (SPD)	0.14	0.08	0.11	0.03	0.07	0.04	0.08
Mittag, Susanne (SPD)	0.10	0.06	0.11	0.04	0.07	0.05	0.07
Mohamed Ali, Amira (Linke)	0.15	0.16	0.10	0.05	0.07	0.05	0.10
Möhring, Cornelia (Linke)	0.07	0.08	0.07	0.02	0.04	0.05	0.06
Mohrs, Falko (SPD)	0.14	0.09	0.15	0.07	0.13	0.07	0.11
Moll, Claudia (SPD)	0.07	0.05	0.08	0.02	0.06	0.02	0.05
Möller, Siemtje (SPD)	0.08	0.06	0.11	0.03	0.08	0.05	0.07
Monstadt, Dietrich (Union)	0.05	0.04	0.06	0.04	0.06	0.03	0.05
Möring, Karsten (Union)	0.15	0.09	0.11	0.05	0.08	0.07	0.09
Mortler, Marlene (Union)	0.15	0.03	0.05	0.02	0.04	0.02	0.05
Motschmann, Elisabeth (Union)	0.11	0.09	0.12	0.05	0.10	0.07	0.09

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Movassat, Niema (Linke)	0.12	0.16	0.10	0.05	0.06	0.09	0.10
Mrosek, Andreas (AfD)	0.07	0.04	0.05	0.02	0.05	0.04	0.05
Müller-Böhm, Roman (FDP)	0.08	0.06	0.09	0.15	0.04	0.05	0.08
Müller-Gemmeke, Beate (Grüne)	0.09	0.11	0.10	0.03	0.04	0.03	0.07
Müller-Rosentritt, Frank (FDP)	0.07	0.06	0.06	0.11	0.06	0.03	0.07
Müller, Alexander (FDP)	0.08	0.07	0.10	0.08	0.07	0.04	0.07
Müller, Axel (Union)	0.12	0.10	0.12	0.06	0.09	0.13	0.10
Müller, Bettina (SPD)	0.05	0.05	0.07	0.03	0.06	0.03	0.05
Müller, Carsten (Union)	0.14	0.09	0.14	0.05	0.11	0.07	0.10
Müller, Claudia (Grüne)	0.13	0.12	0.13	0.06	0.10	0.05	0.10
Müller, Detlef (SPD)	0.08	0.06	0.07	0.03	0.06	0.04	0.06
Müller, Gerd (Union)	0.11	0.06	0.11	0.03	0.08	0.03	0.07
Müller, Hansjörg (AfD)	0.08	0.08	0.07	0.08	0.05	0.08	0.07
Müller, Michael (SPD)	0.03	0.02	0.04	0.01	0.01	0.02	0.02
Müller, Norbert (Linke)	0.09	0.12	0.11	0.03	0.07	0.05	0.08
Müller, Sepp (Union)	0.08	0.07	0.09	0.04	0.05	0.05	0.06
Müller, Stefan (Union)	0.06	0.03	0.05	0.02	0.03	0.10	0.05
Müntefering, Michelle (SPD)	0.07	0.05	0.09	0.04	0.06	0.04	0.06
Münz, Volker (AfD)	0.10	0.08	0.09	0.05	0.08	0.10	0.08
Münzenmaier, Sebastian (AfD)	0.11	0.09	0.11	0.05	0.08	0.09	0.09
Mützenich, Rolf (SPD)	0.12	0.09	0.21	0.07	0.10	0.06	0.11
Nahles, Andrea (SPD)	0.14	0.10	0.18	0.06	0.14	0.06	0.11
Nastic, Zaklin (Linke)	0.12	0.16	0.10	0.03	0.06	0.06	0.09
Natterer, Christian (Union)	0.05	0.02	0.03	0.01	0.02	0.01	0.02
Nestle, Ingrid (Grüne)	0.09	0.03	0.05	0.02	0.04	0.02	0.04
Neu, Alexander S. (Linke)	0.06	0.09	0.06	0.02	0.04	0.04	0.05
Neumann, Christoph (AfD)	0.02	0.02	0.02	0.01	0.03	0.01	0.02
Neumann, Martin (FDP)	0.10	0.05	0.07	0.05	0.06	0.04	0.06
Nick, Andreas (Union)	0.09	0.05	0.13	0.03	0.08	0.05	0.07
Nicolaisen, Petra (Union)	0.07	0.07	0.08	0.03	0.06	0.04	0.06
Nietan, Dietmar (SPD)	0.05	0.04	0.06	0.02	0.04	0.05	0.04
Nissen, Ulli (SPD)	0.10	0.09	0.10	0.02	0.07	0.04	0.07
Nölke, Matthias (FDP)	0.03	0.08	0.05	0.25	0.04	0.02	0.08
Noll, Michaela (Union)	0.07	0.05	0.06	0.02	0.05	0.04	0.05
Nolte, Jan Ralf (AfD)	0.05	0.05	0.06	0.02	0.06	0.06	0.05
Nord, Thomas (Linke)	0.05	0.04	0.04	0.02	0.03	0.05	0.04
Nouripour, Omid (Grüne)	0.11	0.08	0.10	0.04	0.06	0.05	0.07

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Nüßlein, Georg (Union)	0.14	0.10	0.11	0.06	0.09	0.07	0.09
Oehme, Ulrich (AfD)	0.11	0.07	0.09	0.05	0.07	0.08	0.08
Oellers, Wilfried (Union)	0.08	0.09	0.13	0.04	0.08	0.05	0.08
Oppermann, Thomas (SPD)	0.05	0.04	0.05	0.02	0.06	0.04	0.04
Ortleb, Josephine (SPD)	0.07	0.06	0.08	0.03	0.04	0.04	0.05
Oßner, Florian (Union)	0.11	0.07	0.10	0.04	0.13	0.07	0.09
Ostendorff, Friedrich (Grüne)	0.16	0.05	0.06	0.02	0.06	0.04	0.07
Oster, Josef (Union)	0.07	0.05	0.09	0.03	0.08	0.05	0.06
Otte, Henning (Union)	0.07	0.07	0.09	0.03	0.09	0.05	0.07
Otten, Gerold (AfD)	0.10	0.08	0.10	0.03	0.07	0.08	0.07
Özdemir, Cem (Grüne)	0.13	0.05	0.07	0.05	0.08	0.05	0.07
Özdemir, Mahmut (SPD)	0.10	0.08	0.13	0.05	0.08	0.12	0.09
Özouz, Aydan (SPD)	0.11	0.07	0.11	0.03	0.08	0.06	0.08
Pahlmann, Ingrid (Union)	0.09	0.05	0.09	0.04	0.07	0.06	0.07
Pantel, Sylvia (Union)	0.08	0.06	0.10	0.03	0.07	0.05	0.07
Paschke, Markus (SPD)	0.07	0.04	0.08	0.02	0.04	0.02	0.04
Pasemann, Frank (AfD)	0.08	0.08	0.09	0.03	0.06	0.08	0.07
Patzelt, Martin (Union)	0.12	0.08	0.11	0.05	0.09	0.06	0.09
Pau, Petra (Linke)	0.09	0.21	0.09	0.04	0.08	0.07	0.10
Paus, Lisa (Grüne)	0.12	0.10	0.10	0.05	0.06	0.07	0.08
Pellmann, Sören (Linke)	0.07	0.12	0.08	0.04	0.04	0.04	0.06
Perli, Victor (Linke)	0.11	0.21	0.10	0.03	0.07	0.04	0.09
Peterka, Tobias Matthias (AfD)	0.12	0.10	0.10	0.05	0.06	0.12	0.09
Petry, Christian (SPD)	0.10	0.09	0.11	0.06	0.08	0.09	0.09
Pfeiffer, Joachim (Union)	0.09	0.06	0.10	0.05	0.10	0.04	0.07
Pflüger, Tobias (Linke)	0.06	0.10	0.07	0.02	0.04	0.04	0.06
Pilger, Detlev (SPD)	0.04	0.03	0.06	0.02	0.04	0.02	0.03
Pilsinger, Stephan (Union)	0.09	0.09	0.11	0.06	0.10	0.07	0.09
Pinkwart, Andreas (FDP)	0.02	0.01	0.01	0.02	0.01	0.01	0.02
Ploß, Christoph (Union)	0.12	0.05	0.08	0.03	0.12	0.04	0.07
Podolay, Paul Viktor (AfD)	0.09	0.07	0.09	0.05	0.06	0.08	0.07
Pohl, Jürgen (AfD)	0.10	0.15	0.13	0.03	0.07	0.07	0.09
Polat, Filiz (Grüne)	0.15	0.11	0.13	0.04	0.07	0.08	0.10
Pols, Eckhard (Union)	0.07	0.08	0.08	0.03	0.07	0.04	0.06
Poschmann, Sabine (SPD)	0.10	0.07	0.14	0.05	0.09	0.05	0.08
Post, Achim (SPD)	0.10	0.06	0.12	0.04	0.11	0.04	0.08
Post, Florian (SPD)	0.09	0.06	0.08	0.03	0.05	0.05	0.06

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Pronold, Florian (SPD)	0.10	0.04	0.07	0.02	0.05	0.03	0.05
Protschka, Stephan (AfD)	0.13	0.06	0.05	0.03	0.08	0.06	0.07
Raabe, Sascha (SPD)	0.10	0.06	0.10	0.02	0.07	0.04	0.07
Rabanus, Martin (SPD)	0.09	0.07	0.12	0.05	0.07	0.06	0.08
Rachel, Thomas (Union)	0.05	0.04	0.07	0.03	0.04	0.03	0.04
Radomski, Kerstin (Union)	0.05	0.04	0.09	0.03	0.09	0.04	0.06
Radwan, Alexander (Union)	0.08	0.06	0.10	0.04	0.06	0.07	0.07
Rainer, Alois (Union)	0.11	0.07	0.12	0.05	0.12	0.05	0.09
Ramsauer, Peter (Union)	0.04	0.02	0.06	0.01	0.06	0.02	0.04
Rawert, Mechthild (SPD)	0.08	0.07	0.10	0.04	0.04	0.02	0.06
Rehberg, Eckhardt (Union)	0.10	0.09	0.09	0.05	0.10	0.08	0.08
Reichardt, Martin (AfD)	0.12	0.12	0.10	0.03	0.07	0.12	0.09
Reinhold, Hagen (FDP)	0.10	0.08	0.09	0.04	0.07	0.05	0.07
Remmers, Ingrid (Linke)	0.10	0.05	0.04	0.01	0.04	0.02	0.05
Renner, Martin Erwin (AfD)	0.08	0.07	0.05	0.04	0.06	0.07	0.06
Renner, Martina (Linke)	0.07	0.08	0.05	0.07	0.05	0.05	0.06
Reusch, Roman Johannes (AfD)	0.08	0.06	0.08	0.04	0.08	0.10	0.07
Reuther, Bernd (FDP)	0.07	0.04	0.06	0.18	0.07	0.02	0.07
Riebsamen, Lothar (Union)	0.04	0.04	0.05	0.03	0.05	0.03	0.04
Rief, Josef (Union)	0.07	0.06	0.08	0.04	0.09	0.04	0.06
Riexinger, Bernd (Linke)	0.09	0.14	0.08	0.02	0.04	0.03	0.07
Rimkus, Andreas (SPD)	0.09	0.05	0.08	0.03	0.06	0.03	0.06
Rix, Sönke (SPD)	0.11	0.06	0.10	0.03	0.05	0.04	0.06
Rohde, Dennis (SPD)	0.11	0.09	0.14	0.05	0.10	0.07	0.09
Röring, Johannes (Union)	0.10	0.03	0.06	0.02	0.06	0.04	0.05
Rosemann, Martin (SPD)	0.08	0.06	0.14	0.03	0.07	0.03	0.07
Röspel, René (SPD)	0.11	0.06	0.12	0.04	0.09	0.06	0.08
Rossmann, Ernst Dieter (SPD)	0.06	0.05	0.11	0.03	0.05	0.04	0.06
Rössner, Tabea (Grüne)	0.18	0.09	0.14	0.06	0.07	0.06	0.10
Roth, Claudia (Grüne)	0.11	0.05	0.06	0.05	0.04	0.03	0.06
Roth, Michael (SPD)	0.11	0.08	0.12	0.03	0.09	0.04	0.08
Röttgen, Norbert (Union)	0.09	0.05	0.08	0.03	0.07	0.04	0.06
Rottmann, Manuela (Grüne)	0.13	0.09	0.12	0.05	0.07	0.07	0.09
Rouenhoff, Stefan (Union)	0.07	0.05	0.07	0.03	0.05	0.03	0.05
Rüddel, Erwin (Union)	0.06	0.07	0.07	0.04	0.06	0.05	0.06
Rüffer, Corinna (Grüne)	0.10	0.07	0.08	0.11	0.05	0.05	0.08
Ruppert, Stefan (FDP)	0.11	0.09	0.11	0.17	0.10	0.09	0.11

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Rupprecht, Albert (Union)	0.05	0.04	0.09	0.03	0.09	0.04	0.06
Rüthrich, Susann (SPD)	0.12	0.08	0.12	0.04	0.06	0.06	0.08
Rützel, Bernd (SPD)	0.09	0.10	0.12	0.03	0.06	0.03	0.07
Ryglewski, Sarah (SPD)	0.09	0.07	0.13	0.04	0.06	0.06	0.08
Saathoff, Johann (SPD)	0.13	0.07	0.11	0.04	0.08	0.06	0.08
Sarrazin, Manuel (Grüne)	0.08	0.05	0.08	0.04	0.07	0.04	0.06
Sattelberger, Thomas (FDP)	0.12	0.08	0.13	0.11	0.10	0.07	0.10
Sauer, Stefan (Union)	0.08	0.05	0.10	0.04	0.09	0.06	0.07
Sauter, Christian (FDP)	0.05	0.04	0.06	0.05	0.05	0.04	0.05
Schäfer, Anita (Union)	0.06	0.05	0.08	0.03	0.08	0.05	0.06
Schäfer, Axel (SPD)	0.12	0.07	0.12	0.03	0.08	0.07	0.08
Schäffler, Frank (FDP)	0.05	0.05	0.05	0.05	0.04	0.08	0.05
Schäuble, Wolfgang (Union)	0.07	0.05	0.06	0.03	0.07	0.05	0.05
Schauws, Ulle (Grüne)	0.12	0.07	0.09	0.03	0.05	0.06	0.07
Scheer, Nina (SPD)	0.10	0.05	0.10	0.03	0.05	0.05	0.06
Scheuer, Andreas (Union)	0.13	0.06	0.10	0.04	0.12	0.04	0.08
Schick, Gerhard (Grüne)	0.08	0.04	0.06	0.03	0.03	0.04	0.05
Schieder, Marianne (SPD)	0.07	0.05	0.10	0.04	0.05	0.03	0.06
Schiefner, Udo (SPD)	0.05	0.03	0.05	0.02	0.03	0.02	0.03
Schielke-Ziesing, Ulrike (AfD)	0.06	0.08	0.08	0.03	0.06	0.07	0.06
Schimke, Jana (Union)	0.09	0.11	0.12	0.04	0.08	0.06	0.08
Schinnenburg, Wieland (FDP)	0.09	0.06	0.06	0.13	0.06	0.06	0.08
Schipanski, Tankred (Union)	0.10	0.08	0.12	0.05	0.12	0.07	0.09
Schlund, Robby (AfD)	0.09	0.08	0.08	0.05	0.06	0.11	0.08
Schmid, Nils (SPD)	0.09	0.07	0.11	0.03	0.08	0.05	0.07
Schmidt, Christian (GRÜNE)	0.11	0.07	0.11	0.04	0.10	0.06	0.08
Schmidt, Dagmar (SPD)	0.11	0.10	0.17	0.04	0.07	0.04	0.09
Schmidt, Frithjof (Grüne)	0.07	0.05	0.08	0.02	0.05	0.03	0.05
Schmidt, Stefan (Grüne)	0.13	0.10	0.09	0.04	0.06	0.05	0.08
Schmidt, Ulla (SPD)	0.06	0.06	0.09	0.04	0.06	0.05	0.06
Schmidt, Uwe (SPD)	0.08	0.04	0.09	0.03	0.08	0.02	0.06
Schmidtke, Claudia (Union)	0.07	0.06	0.07	0.04	0.07	0.03	0.06
Schneider, Carsten (SPD)	0.10	0.08	0.13	0.05	0.08	0.10	0.09
Schneider, Jörg (AfD)	0.09	0.10	0.10	0.04	0.06	0.07	0.08
Schneidewind-Hartnagel, (Grüne)	Charlotte	0.04	0.03	0.07	0.01	0.02	0.03
Schnieder, Patrick (Union)		0.10	0.07	0.09	0.04	0.08	0.08

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Scholz, Olaf (SPD)	0.14	0.10	0.18	0.07	0.13	0.06	0.11
Schön, Nadine (Union)	0.13	0.07	0.14	0.05	0.11	0.05	0.09
Schraps, Johannes (SPD)	0.11	0.06	0.12	0.05	0.07	0.05	0.08
Schreiber, Eva-Maria (Linke)	0.11	0.12	0.10	0.03	0.05	0.05	0.08
Schreiner, Felix (Union)	0.12	0.04	0.06	0.03	0.08	0.04	0.06
Schröder, Ole (Union)	0.02	0.01	0.03	0.01	0.01	0.02	0.02
Schrodi, Michael (SPD)	0.11	0.09	0.13	0.04	0.08	0.08	0.09
Schüle, Manja (SPD)	0.08	0.08	0.12	0.04	0.08	0.04	0.07
Schulte, Ursula (SPD)	0.09	0.05	0.10	0.02	0.05	0.03	0.06
Schulz-Asche, Kordula (Grüne)	0.08	0.07	0.09	0.06	0.07	0.04	0.07
Schulz, Jimmy (FDP)	0.02	0.02	0.03	0.04	0.01	0.01	0.02
Schulz, Martin (SPD)	0.09	0.07	0.08	0.06	0.06	0.04	0.07
Schulz, Swen (SPD)	0.06	0.03	0.10	0.02	0.07	0.02	0.05
Schulz, Uwe (AfD)	0.12	0.06	0.10	0.06	0.09	0.09	0.09
Schulze, Klaus-Peter (Union)	0.13	0.07	0.10	0.04	0.09	0.04	0.08
Schummer, Uwe (Union)	0.08	0.09	0.12	0.03	0.06	0.04	0.07
Schuster, Armin (Union)	0.09	0.05	0.08	0.05	0.09	0.05	0.07
Schwabe, Frank (SPD)	0.09	0.06	0.12	0.03	0.06	0.04	0.07
Schwartz, Stefan (SPD)	0.05	0.04	0.08	0.02	0.04	0.02	0.04
Schwarz, Andreas (SPD)	0.10	0.06	0.11	0.05	0.08	0.06	0.08
Schwarzelühr-Sutter, Rita (SPD)	0.17	0.06	0.09	0.03	0.09	0.04	0.08
Schweiger, Torsten (Union)	0.06	0.07	0.07	0.03	0.06	0.04	0.06
Seehofer, Horst (Union)	0.12	0.08	0.12	0.06	0.14	0.07	0.10
Seestern-Pauly, Matthias (FDP)	0.07	0.05	0.08	0.25	0.04	0.03	0.08
Seif, Detlef (Union)	0.09	0.06	0.09	0.04	0.07	0.09	0.07
Seitz, Thomas (AfD)	0.11	0.09	0.11	0.05	0.08	0.15	0.10
Selle, Johannes (Union)	0.07	0.05	0.10	0.03	0.06	0.04	0.06
Sendker, Reinhold (Union)	0.05	0.03	0.06	0.03	0.08	0.03	0.05
Sensburg, Patrick (Union)	0.10	0.08	0.10	0.04	0.07	0.08	0.08
Sichert, Martin (AfD)	0.13	0.12	0.11	0.05	0.08	0.11	0.10
Silberhorn, Thomas (Union)	0.05	0.04	0.08	0.02	0.07	0.03	0.05
Simon, Björn (Union)	0.08	0.04	0.08	0.03	0.07	0.04	0.06
Sitta, Frank (FDP)	0.12	0.06	0.09	0.18	0.09	0.05	0.10
Sitte, Petra (Linke)	0.14	0.14	0.16	0.07	0.09	0.07	0.11
Skudelny, Judith (FDP)	0.14	0.07	0.09	0.07	0.08	0.05	0.08
Solms, Hermann Otto (FDP)	0.03	0.03	0.04	0.08	0.03	0.03	0.04
Sommer, Helin Evrim (Linke)	0.09	0.09	0.09	0.04	0.05	0.04	0.07

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Sorge, Tino (Union)	0.08	0.08	0.09	0.04	0.07	0.05	0.07
Spahn, Jens (Union)	0.09	0.08	0.11	0.05	0.09	0.05	0.08
Spangenberg, Detlev (AfD)	0.12	0.12	0.12	0.07	0.09	0.12	0.11
Spaniel, Dirk (AfD)	0.14	0.07	0.08	0.03	0.08	0.07	0.08
Spiering, Rainer (SPD)	0.12	0.06	0.09	0.04	0.08	0.05	0.07
Springer, René (AfD)	0.09	0.09	0.09	0.04	0.06	0.10	0.08
Stadler, Svenja (SPD)	0.08	0.05	0.13	0.02	0.06	0.03	0.06
Staffler, Katrin (Union)	0.10	0.06	0.14	0.06	0.10	0.05	0.08
Stamm-Fibich, Martina (SPD)	0.09	0.08	0.10	0.05	0.06	0.05	0.07
Stark-Watzinger, Bettina (FDP)	0.08	0.06	0.08	0.10	0.09	0.04	0.07
Steffel, Frank (Union)	0.08	0.06	0.07	0.06	0.06	0.06	0.07
Steffen, Sonja Amalie (SPD)	0.11	0.09	0.13	0.04	0.09	0.11	0.10
Stefinger, Wolfgang (Union)	0.10	0.06	0.12	0.03	0.10	0.05	0.08
Stegemann, Albert (Union)	0.08	0.03	0.05	0.02	0.05	0.03	0.04
Steier, Andreas (Union)	0.08	0.04	0.11	0.03	0.08	0.03	0.06
Stein, Mathias (SPD)	0.11	0.06	0.11	0.03	0.07	0.04	0.07
Stein, Peter (Union)	0.13	0.07	0.10	0.05	0.10	0.06	0.08
Steineke, Sebastian (Union)	0.08	0.05	0.10	0.04	0.05	0.05	0.06
Steiniger, Johannes (Union)	0.07	0.05	0.08	0.04	0.08	0.05	0.06
Steinke, Kersten (Linke)	0.03	0.08	0.03	0.01	0.02	0.02	0.03
Stetten, Christian Freiherr von (Union)	0.03	0.03	0.04	0.02	0.03	0.03	0.03
Stier, Dieter (Union)	0.08	0.03	0.05	0.02	0.05	0.03	0.04
Storjohann, Gero (Union)	0.08	0.03	0.04	0.02	0.04	0.02	0.04
Strack-Zimmermann, Marie-Agnes (FDP)	0.08	0.07	0.10	0.13	0.08	0.04	0.08
Stracke, Stephan (Union)	0.10	0.09	0.16	0.05	0.11	0.05	0.09
Straetmanns, Friedrich (Linke)	0.14	0.18	0.14	0.06	0.09	0.14	0.13
Strasser, Benjamin (FDP)	0.12	0.08	0.12	0.30	0.09	0.08	0.13
Straubinger, Max (Union)	0.10	0.10	0.11	0.04	0.09	0.07	0.08
Strengmann-Kuhn, Wolfgang (Grüne)	0.12	0.08	0.11	0.03	0.05	0.04	0.07
Strenz, Karin (Union)	0.03	0.02	0.05	0.01	0.04	0.02	0.03
Stübgen, Michael (Union)	0.04	0.03	0.03	0.02	0.02	0.04	0.03
Stumpp, Margit (Grüne)	0.11	0.08	0.11	0.05	0.07	0.07	0.08
Suding, Katja (FDP)	0.09	0.06	0.10	0.11	0.07	0.05	0.08
Tack, Kerstin (SPD)	0.08	0.07	0.12	0.03	0.07	0.03	0.07
Tackmann, Kirsten (Linke)	0.13	0.14	0.08	0.03	0.06	0.04	0.08
Tatti, Jessica (Linke)	0.10	0.12	0.10	0.04	0.07	0.03	0.08

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Tauber, Peter (Union)	0.04	0.03	0.07	0.02	0.06	0.02	0.04
Tausend, Claudia (SPD)	0.05	0.05	0.06	0.02	0.05	0.03	0.04
Tebroke, Hermann-Josef (Union)	0.08	0.05	0.07	0.04	0.06	0.08	0.06
Teuteberg, Linda (FDP)	0.13	0.12	0.12	0.20	0.10	0.09	0.13
Theurer, Michael (FDP)	0.12	0.08	0.12	0.21	0.12	0.07	0.12
Thews, Michael (SPD)	0.10	0.04	0.08	0.02	0.05	0.02	0.05
Thies, Hans-Jürgen (Union)	0.07	0.06	0.07	0.03	0.06	0.05	0.06
Thomae, Stephan (FDP)	0.12	0.08	0.12	0.13	0.09	0.10	0.11
Throm, Alexander (Union)	0.12	0.09	0.09	0.05	0.09	0.09	0.09
Tiemann, Dietlind (Union)	0.07	0.07	0.10	0.04	0.09	0.06	0.07
Tillmann, Antje (Union)	0.08	0.07	0.11	0.06	0.09	0.06	0.08
Todtenhausen, Manfred (FDP)	0.08	0.06	0.10	0.14	0.07	0.05	0.08
Toncar, Florian (FDP)	0.09	0.07	0.10	0.15	0.07	0.08	0.09
Töns, Markus (SPD)	0.08	0.06	0.11	0.04	0.05	0.05	0.07
Träger, Carsten (SPD)	0.16	0.06	0.10	0.04	0.08	0.05	0.08
Tressel, Markus (Grüne)	0.09	0.06	0.08	0.03	0.09	0.02	0.06
Trittin, Jürgen (Grüne)	0.10	0.07	0.09	0.03	0.06	0.04	0.07
Uhl, Markus (Union)	0.07	0.05	0.09	0.04	0.08	0.04	0.06
Ullmann, Andrew (FDP)	0.09	0.08	0.08	0.11	0.08	0.07	0.08
Ullrich, Gerald (FDP)	0.07	0.06	0.06	0.07	0.06	0.07	0.06
Ullrich, Volker (Union)	0.16	0.11	0.19	0.08	0.12	0.11	0.13
Ulrich, Alexander (Linke)	0.12	0.21	0.10	0.04	0.08	0.08	0.11
Vaatz, Arnold (Union)	0.04	0.06	0.04	0.02	0.03	0.03	0.04
Veith, Oswin (Union)	0.04	0.02	0.05	0.01	0.05	0.02	0.03
Verlinden, Julia (Grüne)	0.11	0.05	0.07	0.02	0.05	0.05	0.06
Vieregge, Kerstin (Union)	0.04	0.04	0.07	0.02	0.06	0.03	0.04
Vogel, Johannes (FDP)	0.09	0.07	0.10	0.08	0.07	0.05	0.08
Vogel, Volkmar (Union)	0.08	0.05	0.07	0.02	0.06	0.02	0.05
Vogler, Kathrin (Linke)	0.12	0.13	0.11	0.04	0.07	0.07	0.09
Vogt, Ute (SPD)	0.09	0.06	0.09	0.03	0.05	0.05	0.06
Völlers, Marja-Liisa (SPD)	0.08	0.05	0.10	0.03	0.06	0.03	0.06
von Abercron, Michael (Union)	0.09	0.05	0.10	0.04	0.06	0.06	0.07
von der Marwitz, Hans-Georg (Union)	0.08	0.04	0.05	0.02	0.06	0.02	0.04
von Gottberg, Wilhelm (AfD)	0.10	0.06	0.08	0.04	0.08	0.07	0.07
von Holtz, Ottmar (Grüne)	0.13	0.07	0.11	0.03	0.07	0.05	0.08
von Marschall, Matern (Union)	0.10	0.06	0.12	0.04	0.09	0.06	0.08
von Notz, Konstantin (Grüne)	0.15	0.08	0.13	0.06	0.09	0.06	0.09

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
von Storch, Beatrix (AfD)	0.12	0.11	0.10	0.04	0.09	0.12	0.10
Vöpel, Dirk (SPD)	0.04	0.03	0.06	0.02	0.05	0.03	0.04
Wadephul, Johann David (Union)	0.09	0.06	0.10	0.05	0.10	0.05	0.08
Wagenknecht, Sahra (Linke)	0.13	0.13	0.13	0.04	0.09	0.05	0.10
Wagner, Andreas (Linke)	0.11	0.06	0.05	0.02	0.06	0.02	0.05
Wagner, Daniela (Grüne)	0.13	0.08	0.10	0.03	0.09	0.04	0.08
Walter-Rosenheimer, Beate (Grüne)	0.12	0.06	0.12	0.04	0.07	0.03	0.07
Wanderwitz, Marco (Union)	0.06	0.06	0.08	0.04	0.09	0.04	0.06
Warken, Nina (Union)	0.07	0.05	0.08	0.03	0.05	0.06	0.06
Weber, Gabi (SPD)	0.09	0.06	0.11	0.03	0.08	0.04	0.07
Weeser, Sandra (FDP)	0.12	0.07	0.09	0.21	0.07	0.05	0.10
Wegner, Kai (Union)	0.06	0.05	0.05	0.02	0.07	0.02	0.05
Weidel, Alice (AfD)	0.15	0.10	0.10	0.06	0.11	0.14	0.11
Weiler, Albert (Union)	0.05	0.06	0.10	0.02	0.07	0.04	0.06
Weiler, Albert H. (Union)	0.06	0.09	0.08	0.04	0.07	0.05	0.07
Weinberg, Harald (Linke)	0.07	0.11	0.07	0.04	0.06	0.06	0.07
Weinberg, Marcus (Union)	0.08	0.06	0.11	0.03	0.07	0.05	0.07
Weingarten, Joe (SPD)	0.07	0.05	0.10	0.04	0.07	0.03	0.06
Weisgerber, Anja (Union)	0.11	0.05	0.07	0.03	0.07	0.03	0.06
WeiSS, Peter (Union)	0.08	0.08	0.14	0.04	0.09	0.05	0.08
Weiss, Sabine (Union)	0.04	0.05	0.05	0.02	0.03	0.03	0.04
Wellenreuther, Ingo (Union)	0.04	0.05	0.07	0.02	0.03	0.03	0.04
Wendt, Marian (Union)	0.12	0.11	0.13	0.05	0.10	0.09	0.10
Werner, Katrin (Linke)	0.08	0.08	0.09	0.03	0.04	0.03	0.06
Westig, Nicole (FDP)	0.05	0.06	0.06	0.16	0.06	0.03	0.07
Westphal, Bernd (SPD)	0.13	0.08	0.15	0.05	0.12	0.05	0.09
Weyel, Harald (AfD)	0.12	0.09	0.08	0.04	0.07	0.10	0.08
Whittaker, Kai (Union)	0.11	0.11	0.11	0.04	0.07	0.06	0.08
Widmann-Mauz, Annette (Union)	0.09	0.06	0.09	0.04	0.07	0.03	0.06
Wiehle, Wolfgang (AfD)	0.12	0.08	0.08	0.04	0.09	0.09	0.08
Wiese, Dirk (SPD)	0.11	0.06	0.13	0.05	0.08	0.05	0.08
Wiesmann, Bettina Margarethe (Union)	0.12	0.08	0.13	0.04	0.07	0.07	0.09
Wildberg, Heiko (AfD)	0.08	0.05	0.05	0.03	0.04	0.06	0.05
Willkomm, Katharina (FDP)	0.08	0.07	0.08	0.15	0.05	0.05	0.08
Willsch, Klaus-Peter (Union)	0.10	0.07	0.11	0.05	0.08	0.05	0.08
Winkelmeier-Becker, Elisabeth (Union)	0.12	0.09	0.13	0.05	0.08	0.07	0.09
Wirth, Christian (AfD)	0.13	0.12	0.11	0.06	0.10	0.15	0.11

... continued

	Grüne	Linke	SPD	FDP	Union	AfD	Avg. ²
Wissing, Volker (FDP)	0.05	0.02	0.04	0.02	0.05	0.02	0.03
Witt, Uwe (AfD)	0.12	0.15	0.13	0.06	0.08	0.10	0.11
Wittke, Oliver (Union)	0.09	0.05	0.07	0.02	0.09	0.03	0.06
Yüksel, Gülistan (SPD)	0.09	0.07	0.11	0.03	0.06	0.06	0.07
Zdebel, Hubertus (Linke)	0.09	0.07	0.05	0.02	0.03	0.03	0.05
Zech, Tobias (Union)	0.05	0.04	0.06	0.02	0.03	0.02	0.04
Zeulner, Emmi (Union)	0.11	0.10	0.12	0.05	0.11	0.07	0.09
Zickenheiner, Gerhard (Grüne)	0.08	0.03	0.05	0.02	0.04	0.02	0.04
Ziegler, Dagmar (SPD)	0.09	0.06	0.10	0.03	0.06	0.06	0.07
Ziemiak, Paul (Union)	0.09	0.07	0.09	0.04	0.08	0.07	0.07
Zimmer, Matthias (Union)	0.11	0.12	0.12	0.05	0.08	0.07	0.09
Zimmermann, Jens (SPD)	0.14	0.08	0.14	0.05	0.10	0.04	0.09
Zimmermann, Pia (Linke)	0.04	0.09	0.05	0.02	0.03	0.02	0.04
Zimmermann, Sabine (Linke)	0.08	0.22	0.09	0.03	0.05	0.05	0.09
Zypries, Brigitte (SPD)	0.06	0.04	0.07	0.04	0.06	0.03	0.05

²Average of similarity with other parties than the own