

Master Thesis submitted in partial fulfillment of the requirements for the degree of Master in Political Science: European and International Governance

A double-edged sword: the peculiar effects of polarisation on social cohesion in Antwerp

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Preface and acknowledgments

Writing a thesis in the midst of a pandemic has been both challenging and inspiring. While research possibilities became more limited and mental perseverance a struggle within the series of lockdowns and social restrictions, describing and understanding phenomena of polarisation and social cohesion proved to be only more interesting at a time in which the social order is significantly tested. This has only strengthened my belief that in today's world, academic research on what holds a society together is vital.

Therefore, I am very grateful for having received the opportunity with this thesis to study those concepts in more detail. Something I couldn't have done without my promotor, Ferran Davesa, given his dedicated supervision and wise advice, making it easier to navigate the complexity of the topic and challenge of the process. Further, I have learnt a lot from the pre-doctoral trajectory, led by Tuba Bircan and Nanouk Verhulst, to finish my first academic endeavour of writing an academic paper. Thanks to their help, this research will hopefully be the first step in a bigger project on polarisation and social cohesion in Belgium.

Most of all however, I am eternally grateful to my friends, family and loving girlfriend especially, who have given meaning and direction in this extraordinary weird year. I sincerely hope this to be the start of a new beginning.

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Abstract

Western societies have been found to be increasingly divided over the latest years, transcending rational disagreements with hostility and dislike towards others. Belgium, and more specifically its northern region of Flanders, have been no exception. Despite the dividing characteristics of these polarising dynamics, however, the overall level of social cohesion in Belgium has not decreased according to some major social cohesion indicators. To understand this quandary, this paper has conducted a mixed-methods empirical study on the effects of polarisation on social cohesion in the specific case of the Flemish province of Antwerp. In doing so, it has adopted a novel theoretical framework: both social cohesion and polarisation are operationalised in an objective dimension (looking from a distance at observable phenomena in society) and a subjective dimension (looking from within people's viewpoints at personal feelings, attitudes and perceptions). The results indicate that this distinction provides a new way of understanding social cohesion in society: on the individual level, people are glued together based on their objective relations and connections; on the community level, people stick together due to subjective feelings of attachment. In that regard, it was found that polarisation most strongly affects the latter: strong polarised emotions (rational polarisation), negative attitudes towards out-groups (morally polarised attitudes) and limited engagement to discuss political or social matters with others (morally polarised behaviour) all decrease people's emotional attachment to broader society. On the individual level of cohesion, it was found that morally polarised behaviour decreases people's close cohesion to their personal network, while morally polarised attitudes increase this form of cohesion. These results enhance the theoretical insights in the field by indicating that polarisation and social cohesion are interlinked in a refined way.

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1 Introduction

Disagreement and conflicting opinions are an inherent part of democracy, in which these differences are translated into different parties and societal groups (Heywood, 2013; Reiljan, 2020). In recent years, however, this form of rational disagreement in Western democracies has been trumped by an increase of hostility, dislike and antipathy towards others in society (Applebaum, 2018; Boxell, Gentzkow, & Shapiro, 2020; Dimant, 2020; Druckman, Peterson, & Slothuus, 2013; Gidron, Adams, & Horne, 2018; Reiljan, 2020; Rogowski & Sutherland, 2016; Tappin & McKay, 2019). In stark contrast to issue-related differences on a *rational* level, which are an institutionalized element of the democratic system (Heywood, 2013), this increased resentment towards fellow citizens can arguably be called *emotional* polarisation¹. Strong emotions are formed against the other's group-identity, which endangers the working of democracies by harming the social fabric and institutional consensus in society (Boxell et al., 2020; Dimant, 2020; Gidron et al., 2018; McCoy, Rahman, & Somer, 2018; Reiljan, 2020).

While there have been little systemic studies on such a rise of emotional polarisation in Belgium and its northern region of Flanders, some exemplary cases suggest that it exists there as well: the rise of polarising and extreme parties (Belga, 2019; Huysseune, 2017), strong polarisation of online communication (D'hauwer, 2020) and Flemish citizens becoming more strongly and more emotionally divided over various societal issues (de Preter, 2020; Demeulemeester, 2018; Truwant, 2020). Since emotional polarisation might significantly threaten societal strength by harming political trust and cooperation (Reiljan, 2020), these signals of increasing polarisation in the historically divided society of Belgium are worrisome (Deschouwer, 2012). More specifically, it is expected that emotional polarisation makes the Flemish cohesiveness crumble down since this 'passionate' radicalisation of opposed groups harms the social fabric, levels of trust, legitimacy and political efficacy in society (Boxell et al., 2020; Dimant, 2020; Gidron et al., 2018; McCoy et al., 2018; Reiljan, 2020).

Interestingly enough, however, major social cohesion indicators² measuring exactly such togetherness of the Belgian and Flemish society, show stable and increasing levels of cohesion in Belgium in the latest years (Dragolov, Ignácz, Lorenz, & Delhey, 2016; European Council on Foreign Relations, 2020; Janning, 2018; Klavehn, 2016). It has even been found that Belgium is one of the countries with the highest amount of social cohesion in Europe (European Council on Foreign Relations, 2020). A similar

¹ This concept has been developed by the author, drawing upon the concept of affective polarisation existing in the literature (Reiljan, 2020). See theoretical framework.

² These indicators are the Social Cohesion Index of the Bertelmann Stiftung (Dragolov et al., 2016) and the EU Cohesion Monitor (European Council on Foreign Relations, 2020)

trend is observed in other European countries: despite the existence of emotional polarisation (Reiljan, 2020), they have seen stable or even increasing levels of their cohesiveness nevertheless (Möller, 2019).

Building upon previous research pointing towards the disrupting and harming effects of polarisation, this is a very puzzling observation. How is it possible that the general cohesiveness of the Flemish society has been strengthening despite the observation of Flanders becoming ever more divided? What, if any, then *is* the effect of polarisation upon the state of Flemish social cohesion?

To answer these questions, a closer examination of the relationship between polarisation and social cohesion is needed. This paper will therefore study how polarisation and social cohesion are interlinked in the case of Flanders through a mixed-methods analysis, combining in-depth interviews with an online survey in the specific case of the Flemish province of Antwerp.

The paper is structured as follows. It will first conceptually disentangle the concepts of polarisation and social cohesion by incorporating an objective and subjective dimension to look at social reality. Second, based on the categorisation of the key-concepts of polarisation and social cohesion at hand, the analytical part will then show how these concepts are interlinked through the results of the survey and in-depth interviews. Ultimately, the paper will discuss these effects and provide some implications and venues for further research.

2 Theoretical framework

Essentially, this paper aims at understanding the possible dividing effects of polarisation upon social cohesion in the Belgian province of Antwerp. However, these general terms do not suffice to be precise about this relationship, especially since these concepts can be understood in various ways. Therefore, two so-called 'dimensions' are adopted through which social cohesion and polarisation can be understood: an objective and a subjective dimension.

The objective dimension on the one hand focuses on how people are measurably positioned and structurally embedded in their networks and broader society, as if one looks from above at how people on the ground are positioned in society. Arguably, most of the current and prominent indicators of social cohesion are positioned in this dimension (Bourdieu, 1986; Chan, To, & Chan, 2006; Jenson, 2010; Putnam, 2000).

The subjective dimension, on the other, takes into account how people actually perceive their objective position in society to be (Bollen & Hoyle, 1990; Chan et al., 2006; Friedkin, 2004). Drawing upon the Thomas theorem – which states that what people think of reality is at least as important as reality itself (Merton, 1995) – this dimension incorporates perceptions, emotions and personal interpretations. As opposed to looking from above, one starts from within people's own minds to look at cohesion and polarisation. With regards to social cohesion, this dimension has not been used often before. This paper will show the benefits of doing so.

This conceptual framework enables defining social cohesion and polarisation more precisely.

2.1 The difference between emotional and rational polarisation

Polarisation has been a buzzword in both academic and public discourse (Bramson et al., 2016), making the question of what this concept exactly means difficult to answer. In that regard, polarisation is often considered as a cluster of multiple concepts rather than having one straightforward meaning (Boxell et al., 2020; Bramson et al., 2016; Druckman et al., 2013; Fiorina & Abrams, 2008; Gidron et al., 2018; Mason, 2015; Reiljan, 2020; Tappin & McKay, 2019). To navigate this multiplicity of understandings, this paper draws upon the two dimensions described above and distinguishes between *emotional* and *rational* polarisation (as seen in Table 2.1).

Table 2.1:Forms of polarisation

Type 1: rational polarisation	Type 2: emotional polarisation
Ideological polarisation ³	Moral polarisation⁵
Issue polarisation ⁴	Affective polarisation ⁶

This distinction starts from a very general definition of polarisation: *a form of clustering of opposing groups within society in which the intensity of polarisation depends on the distance between those groups, their congruity and their size* (Reiljan, 2020). Building thereon, the precise element upon which the groups are formed, defines which kind of polarisation one is dealing with.

Rational polarisation as the first type focuses on the divisive power of opinions, ideologies, and issues. In that sense, it draws upon two specific forms of polarisation: 'issue polarisation' and 'ideological polarisation'. While in both cases individuals are polarised on content-based elements, 'issue polarisation' means that only certain issues get polarised (Baldassarri & Bearman, 2007; Mason, 2015), while 'ideological polarisation' deals with polarisation based upon irreconcilable worldviews (Rapp, 2016).

As a result, rational polarisation is defined as the process in which opposing groups in society cluster together based on rational disagreements.

In contrast, emotional polarisation goes beyond differences in opinion and deals with how people identify themselves in relation to others and behave accordingly. On the one hand, this form of polarisation draws upon 'moral polarisation' (Tappin & McKay, 2019) in which societal groups have a certain moral judgement about other groups in society: they are seen as essentially good or bad. This form of polarisation specifically transcends issue polarisation since people make such judgements on the basis of the group itself, rather than upon possible arguments these groups might have (Druckman et al., 2013). Indeed, stronger group identities therefore lead to higher moral polarisation (Tappin & McKay, 2019). Through positive emotions for one's own group and negative emotions against other groups, a strong and emotional we-versus-them discourse is then formed which causes issue-related disagreements to be overruled by a conflict between opposing group identities (Mason, 2015; McCoy et al., 2018; Tappin & McKay, 2019). This is strongly related to intergroup dynamics - in which one

³ See Rapp, 2016

⁴ See Baldassari & Bearman, 2007; Mason, 2015

⁵ See Tappin & McKay, 2019

⁶ See Boxell et al., 2018; Reiljan, 2019

links one's own identity to the group-identity (Tajfel & Turner, 1979) - and to the typical negative or even stereotypical reactions of groups against so-called out-group threats (Blumer, 1958).

On the other hand, emotional polarisation draws upon 'affective polarisation'. This type applies the broader concept of moral polarisation specifically to political parties, in which they have positive emotions towards their own party and negative emotions to other parties (Boxell et al., 2020; Gidron et al., 2018; Reiljan, 2020; Tappin & McKay, 2019).

Emotional polarisation is thus defined as the process in which opposing groups in society cluster together based on group identities and the emotions and behaviour that are linked with that.

Overall, rational polarisation can be placed in an objective dimension since it focuses upon rational disagreements that define people's political position in society. Emotional polarisation situates within a subjective dimension because of its strong focus upon the sensitive and personal question of group identity and consequent emotions.

2.2 The difference between objective and subjective social cohesion

Social cohesion, as the second key concept in this research, is in its most general terms about *how well people in a certain social constellation are glued together* (Chan et al., 2006; Dragolov et al., 2016; Friedkin, 2004). However, this concept has become increasingly popular in policymaking and academic research, which makes that multiple interpretations exist (Chan et al., 2006; Dragolov et al., 2016; Fonseca, Lukosch, & Brazier, 2019; Friedkin, 2004; Schiefer & van der Noll, 2017). Furthermore, social cohesion cannot be operationalised into one single index (Botterman, Hooghe, & Reeskens, 2012) because as a phenomenon, it can exist on multiple physical (e.g. city against nation) or non-physical levels (e.g. friends against colleagues).

Within this conceptual pastiche, this paper has defined four specific types of social cohesion based on two distinct axes (as seen in Table 2.2). On the first axis (the measurement level), the distinction is made between the community-level and the individual-level (Fonseca et al., 2019). The former looks at groups – both on the micro and the macro level – while the latter considers one's individual position therein. On the second axis (the measurement method), one finds the objective and subjective dimension as lined out in the case of polarisation above.

Table 2.2Conceptual framework of social cohesion

	•	Measurement Method	
		Objective	Subjective
		TYPE 1	TYPE 3
	Community	Social positioning ⁷	Sense of belonging ⁹
Measurement		Social relations/capital ⁸	We-feeling ¹⁰
Level		TYPE 2	TYPE 4
	Individual	Which sub-groups in ¹¹ Common behaviour ¹²	Positive group emotions ¹³ Identity feelings ¹⁴

Consequently, four distinct interpretations of social cohesion emerge. When taking the 'objective' viewpoint, looking from above at how people are visibly interrelated, the first type primarily focuses on macro-level indicators that measure one's social position within society: how people are interrelated and positioned at the community level (Chan et al., 2006; Dragolov et al., 2016; Fonseca et al., 2019; Friedkin, 2004; Moody & White, 2003; Schiefer & van der Noll, 2017; Vergolini, 2011). Drawing on the work of Putnam (2000) and Bourdieu (1986), this is linked with the amount of social capital that exists in society. Therefore, social cohesion in Type 1 is defined as the way in which people are observably glued together at community level through their position and their social relations in society.

Going from the community-level to the individual level (within the objective dimension), the second type looks on the one hand at the amount of sub-groups people are in, thereby dealing with matters of civic engagement in their neighbourhood or close circle (Putnam, 2000). On the other, it describes the common behaviour of individuals within society as seen by common norms, values and cultural practices (Chan et al., 2006; Fonseca et al., 2019; Schiefer & van der Noll, 2017). Here, social cohesion is therefore understood as the way in which people are observably glued together at the individual level based on their common behaviour and their interrelations and engagement in sub-groups.

Most prior studies and indices on social cohesion are situated within this objective dimension: they operationalise social cohesion on the basis of large surveys at the community level, drawing mostly

⁷ See Chan et al., 2006; Dragolov et al., 2016; Fonseca et al., 2019; Friedkin, 2004; Moody & White, 2003; Schiefer & van der Noll, 2017; Vergolini, 2011a

⁸ See Bourdieu, 1986; Oxoby, 2009; Putnam, 2000

⁹ See Chan et al., 2006; Dragolov et al., 2016; Lev-Wiesel, 2003; Schiefer & van der Noll, 2017

 $^{^{10}}$ See Chan et al., 2006; Dragolov et al., 2016; Fonseca et al., 2019; Friedkin, 2004

¹¹ See Putnam, 2000

 $^{^{12}}$ See Chan et al., 2006; Fonseca et al., 2019; Schiefer & van der Noll, 2017

¹³ See Fonseca et al., 2019; Friedkin, 2004; Tajfel & Turner, 1979

¹⁴ See Chan et al., 2006; Fonseca et al., 2019; Gallagher, 2009; Schiefer & van der Noll, 2017

on 'objective' and structural elements focused upon people's position within society (Addeo, Diana, Bottoni, & Esposito, 2017; Berger-Schmitt, 2000; Dickes & Valentova, 2013; Dragolov et al., 2016; European Council on Foreign Relations, 2020; Janmaat, 2011; Jenson, 2010; Klavehn, 2019). In the case of Belgium specifically, such studies attend to, amongst others, the effect of these structural social cohesion indicators on voting choices (Vanhoutte & Hooghe, 2013) or on differences in social capital (Neutens, Vyncke, De Winter, & Willems, 2013). Interestingly, one such study has also captured the level of social cohesion in Flanders specifically (Hooghe, Vanhoutte, & Bircan, 2009).

However, to best understand how polarisation can be linked to social cohesion, this paper argues for a further understanding of the *subjective* dimension of social cohesion, which starts from within people's emotions, perceptions and interpretations of society. As such, the third type of social cohesion includes the important element of sense of belonging to society as a whole on the community-level, as this is often seen as crucial for keeping a society together (Chan et al., 2006; Dragolov et al., 2016; Lev-Wiesel, 2003; Schiefer & van der Noll, 2017). Secondly, this type also includes 'we-feeling', combining everything that relates to common goals (Schiefer & van der Noll, 2017), trust, solidarity and positive attitudes towards generalized others (Chan et al., 2006; Dragolov et al., 2016; Fonseca et al., 2019; Friedkin, 2004). Social cohesion in type 3 is therefore defined as *the way in which people feel like they are glued together at the community-level through their sense of belonging and we-feeling*.

Finally, the fourth type introduces the component of (group) emotions to the question of social cohesion, because sub-group feelings strongly define one's connection to others (Fonseca et al., 2019; Friedkin, 2004; Tajfel & Turner, 1979). This includes the crucial but complex process of identity-feelings, since sharing similar identities might greatly improve one's connection to others (Chan et al., 2006; Fonseca et al., 2019; Gallagher, 2009; Schiefer & van der Noll, 2017). Type 4 is thus defined as the way in which people feel like they are individually glued together based on how they identify themselves in broader society and in certain groups.

As this paper will show, a subjective dimension on emotions and perceptions is crucial to understand broader social reality today. Subjective social cohesion will therefore prove a relevant addition to the general social cohesion framework. Indeed, some previous studies on subjective social cohesion already exist, focusing on a sense of belonging or identity and feelings of trust at the community level and on dynamics in smaller groups at the individual level (Almond & Verba, 1989; Bollen & Hoyle, 1990; Breidahl, Holtug, & Kongshøj, 2018; Hipp & Perrin, 2006; Holtug, 2017; Lawler, Thye, & Yoon, 2000; Lev-Wiesel, 2003; Pinto et al., 2020; Rapp, 2016; Sturgis, Brunton-Smith, Kuha, & Jackson, 2014; Vasta, 2010). However, specific research into the effect of the process and dynamics of polarisation on the state of subjective social cohesion are lacking, both in the case of Belgium and more generally.

2.3 Understanding polarisation through the lens of social cohesion

The theoretical model outlined above defines both social cohesion and polarisation in a renewed way, accounting for the importance of both measurable indicators, and emotions and perceptions in explaining people's connection to society.

With that framework, understanding polarisation through the lens of social cohesion provides a new perspective on the question of societal togetherness and division, filling an important gap in previous research. To do so, this paper serves as an exploratory study on the effects of polarisation on social cohesion in the case of the province of Antwerp. Based on the theoretical model, four hypotheses on this relationship were formed.

H1: the different types of social cohesion and polarisation differ empirically and can be operationalised into distinct indices.

H2: both types of polarisation have a predominantly negative effect on social cohesion, given their dividing characteristics into/between opposing groups.

H3: while rational polarisation mostly affects objective types of cohesion, emotional polarisation mostly affects the subjective types.

H4: Polarisation reveals an upward trend while social cohesion has been decreasing.

3 Methodology

This study draws upon a mixed-methods analysis (Lieberman, 2005). A quantitative survey measures the concepts in an aggregated way and estimates the possible effects between polarisation and social cohesion. This quantitative layer has then been complemented by in-depth interviews exploring respondents' personal feelings and perceptions towards these concepts.

3.1 Data collection: description of samples and sampling method

This research has been conducted in the province of Antwerp for various reasons. Belgium at large is a highly relevant and interesting context for studying polarisation and social cohesion due to the historically divided nature of the Belgian society, with many cleavages running through (Deschouwer, 2012) and with the existence of sub-state nationalism and populism in Flanders (van Haute, Pauwels, & Sinardet, 2018). The specific province of Antwerp offers an interesting combination of the diverse and densely populated city of Antwerp and the quasi-rural environments around it.

Two separate groups of data were collected. First, an online survey was created via Qualtrics¹⁵ and shared in the province of Antwerp between February 23rd and March 21st (N = 265). While covering a wide range of spatially organised communities, the sample is however not fully representative given that mostly one socio-economic level of society was reached: rather young or middle-aged, well-educated, and non-poor respondents¹⁶. The relatively big size, however, somewhat mitigates this bias.

Second, a sub-sample was directly drawn from this bigger sample for the purpose of in-depth interviews. To do this, the survey allowed for opting for a follow-up interview, for which 20 respondents were selected¹⁷: 10 randomly and 10 focusing upon their levels of social cohesion and polarisation. These interviews¹⁸ were held in the period between March 11th and March 23rd.

3.2 Quantitative data analysis: drawing the rough lines

The quantitative analysis based on the survey data was conducted in two phases. First, the latent variables for both social cohesion and polarisation were created. Second, the relationships between the two were estimated. The quantitative approach thus enabled for an *aggregated* view on the research question.

 $^{^{15}}$ See questionnaire in supplemental material, Appendix G.

 $^{^{\}rm 16}$ See Appendix A for descriptives and overview of the samples.

 $^{^{\}rm 17}$ See Appendix B for sampling method in more details.

¹⁸ Due to the current health measures, all interviews were conducted via Skype. For the topic list, see Appendix G.

3.2.1 Creation latent variables

As the literature section already pointed out, social cohesion as the dependent and polarisation as the independent variable are difficult concepts to grasp. By creating the variables for these concepts ¹⁹, the analysis therefore accounted for an empirical 'test' of these possible meanings. On the one hand, the indicators for both concepts have been created based on the data itself (induction) and operationalised from the theoretical meanings (deduction). On the other hand, the concepts have also been discussed extensively with the interviewees to understand their perceptions thereof.

For social cohesion, reliability analysis on the theoretical types concluded that the four types were indeed moderately supported by the data²⁰. As a result, four normalised²¹ latent variables were created measuring the four types of social cohesion.

For the inductive approach, principal component analysis²² (estimating which types emerged from the data itself) showed 6 extractable components²³. Reliability analysis on these components indicated that while 5 could be operationalised, 1 had to be discarded²⁴.

For polarisation, reliability analysis on the two theoretical types (rational and emotional polarisation) indicated that only rational polarisation could be extracted deductively²⁵. Emotional polarisation had to be inductively defined²⁶ and was divided in two sub-components based on the principal component analysis: 'morally polarised attitudes' and 'morally polarised behaviour' (their interpretation will be discussed in the next section).

3.2.2 Estimating the effects of polarisation upon social cohesion

To analyse the effects of these types of polarisation as independent variables on the types and components of social cohesion as dependent variables, these newly created variables were inserted in a multivariate multiple regression model or canonical regression analysis in which the effects are estimated by the standardised regression coefficients per covariate or independent variable (Dattalo, 2013). This statistical technique, other than OLS multivariate regression, makes it possible to look at the effects of the different types of polarisation on the different types and components of social cohesion *all at the same time*²⁷. The results can be found in the next section.

¹⁹ For the whole statistical process, see Appendix C.1 and C.2.

²⁰ Based on satisfactory Cronbach's alpha values of around .6, see Appendix C.1.1.

²¹ The process of normalisation was chosen for all latent variables to be able to compare the indices. See Appendix C.3.

²² See results of PCA in Appendix C.1.2.

²³ The meaning of these components is based on the variables loading on them as shown in the PCA, see Appendix C.1.2

²⁴ Component 6 was not operationalised due to a Cronbach's alpha of .444, see Appendix C.1.2.

²⁵ Based on a satisfactory Cronbach's alpha value of .576, see Appendix C.2.1.

²⁶ Based on a non-satisfactory Cronbach's alpha value of -.074, see Appendix C.2.2.

 $^{^{27}}$ For mor details, see Appendix D for assumptions and Appendix G for statistical output.

3.3 Qualitative data analysis: what do people think?

To enhance the empirical understanding of this research, the insights from the quantitative analysis were contrasted by the insights of the interviews. To do so, the interviews were transcribed and coded according to the Grounded Theory method (Glaser & Strauss, 1967). This coding process was done in a combination of deductive and inductive coding due to the length of the interviews (54 minutes on average) using an interpretative approach in accordance with the coding rules set by the codebook²⁸. Newly created categorical variables²⁹ showing overall trends combined with specific personal experiences then allowed putting the results of the quantitative analyses in an enhanced perspective. Incorporating those interviews thus enabled for a more in-depth and 'subjective' view on the research question.

²⁸ See supplemental material in Appendix G.

²⁹ See Appendix C.4 for overview and procedure of how these variables were created.

4 Results

What is the effect of (the different types of) polarisation upon (the different types of) social cohesion in the province of Antwerp? The first part of this section describes the quantitative and qualitative results of the univariate state of social cohesion and polarisation. In the second part, the actual effects are statistically estimated and compared to the interviewee's perspectives.

4.1 State of the union? Social cohesion and polarisation in the province of Antwerp

4.1.1 Social cohesion in the province of Antwerp

For social cohesion, apart from the 4 theoretical types, 5 data-driven components were extracted from the data to check whether they support those theoretical types (see Tables 4.1 and 4.2). In that regard, some differences were observed: the data-driven components show that social cohesion on the individual level is mostly linked to objective elements such as cooperation or social relations (see the lower left corner in Figure 4.1), while social cohesion on the community-level is linked more to subjective elements such as sense of belonging or we-feeling (see upper right corner in Figure 4.1). This is also confirmed when looking at how the components and types of social cohesion are correlated³⁰.

Table 4.1 *Meaning of types of social cohesion*

Type 1	Type 2	Type 3	Type 4
The way in which people are observably glued together at community level through their position and their social relations in society.	The way in which people are observably glued together at the individual level based on their common behaviour and their interrelations and engagement in subgroups.	The way in which people feel like they are glued together at the community-level through their sense of belonging and wefeeling.	The way in which people feel like they are individually glued together based on how they identify themselves in broader society and in certain groups.
Community	Individual	Community	Individual
Objective	Objective	Subjective	Subjective
Social positioning; Social capital	Sub-groups; Common behaviour	Sense of belonging; We-feeling	Group emotions; Identity feelings
	The way in which people are observably glued together at community level through their position and their social relations in society. Community Objective Social positioning;	The way in which people are observably glued together at community level through their position and their social relations in society. Community Objective The way in which people are observably glued together at the individual level based on their common behaviour and their interrelations and engagement in subgroups. Individual Objective Social positioning; Sub-groups;	The way in which people are observably glued together at community level through their social relations in society. Community Sub-groups; Sense of belonging;

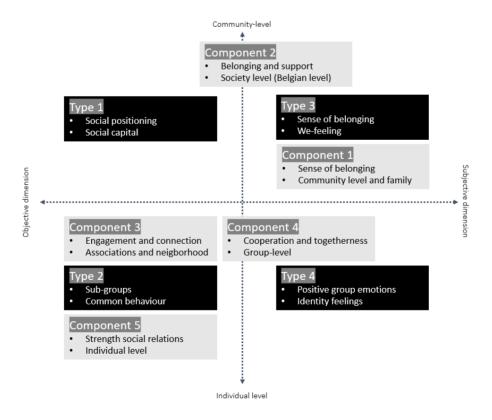
³⁰ See correlation matrix in Appendix C.1.3.

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Table 4.2 *Meaning of components of social cohesion*

	Compon. 1	Compon. 2	Compon.3	Compon. 4	Compon. 5	Compon. 6
	The way in	The way in	The way in	The way in	The way in	The way in
	which people	which people	which people	which people	which people	which people
	feel glued	both feel	are glued	are glued	are glued	are glued
	together by	glued together	together	together	together	together on
	feeling to	by their	through their	through their	through the	the individual
Definition	belong at the	belonging at	engagement for	cooperation	strength of	level through
Dejeio	level of	the Belgian	and	with	their social	their social
	Flanders and	level and are	connections in	(dis)similar	relations with	position in
	their closer	glued together	their	groups.	others.	society and
	circle.	through	associations			support.
		societal	and			
		support.	neighbourhood.			
Level	Community	Community	Individual	Individual	Individual	Individual
Dimension	Subjective	Mostly	Objective	Mostly	Objective	Objective
Dimension		subjective		objective		
	Sense of	Belonging;	Engagement;	Cooperation	Strength	Social
Key words	belonging	support	connection		social	positioning
					relations	

Figure 4.1 *Graphical positioning of concepts and types on theoretical axes*

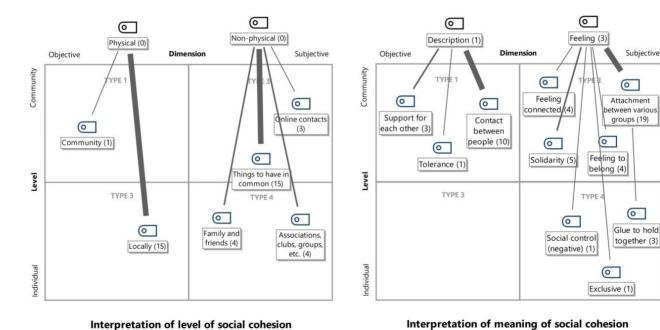


Note. Black boxes represent theoretical types, while grey boxes show data-driven components.

To further check the empirical relevance of the theoretical types, the in-depth interviews asked for people's general understanding of social cohesion (see Figure 4.2), people's stance towards the two dimensions specifically and how people see the amount of social cohesion in society today.

On the first point (i.e. people's understanding of social cohesion), the answers were coded according to the level and interpretation of social cohesion. Regarding the *level* (see Figure 4.3), social cohesion was mainly understood as something non-physical in which many respondents interpreted it as having things in common. If understood in a physical way, social cohesion was interpreted as being something local (e.g. in close circle or neighbourhood). Regarding the *interpretation* of social cohesion, most understandings were coded in the subjective dimension. There, the general attachment between groups (a feeling or *subjective* dimension, N = 19) ³¹ was most important. When social cohesion was understood within an *objective* dimension, some defining characteristics of social capital surfaced ('contact' and 'support').

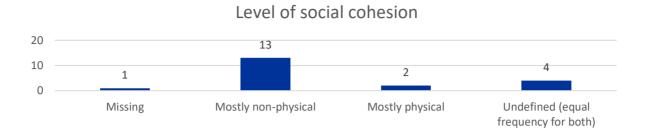
Figure 4.2Graphical representation of codes of social cohesion contrasted with theoretical types



Note. Numbers display code frequency.

³¹ This N refers to the amount of codes instead of the number of respondents.

Figure 4.3

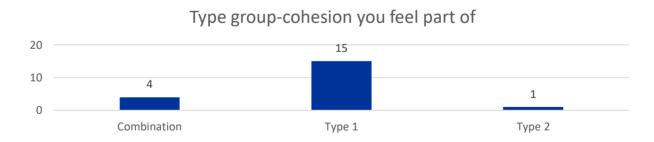


Note. Displays case frequency of interpretation of the level of social cohesion by respondents. N = 20.

On the second point (i.e. people's stance towards objective and subjective social cohesion), the interviews *a priori* had defined specific examples to explore people's reactions towards those hypothetical situations³². On the community-level first, two artificial communities were presented, and respondents were asked to identify themselves in the applicable dimension³³. Figure 4.4 indicates that the *objective* type of social cohesion was most recognisable. Compared with the fact that most respondents understood cohesion as something *subjective*, as indicated above, this seems to be a contradiction. Importantly to mention therefore is that respondents understood this Type 1 to be a to be a smaller group of friends, colleagues, or neighbours rather than society at large:

"[Type] 1 is more like a small group where I – yeah, where you are closer to one another" (R1³⁴).

Figure 4.4



Note. Displays case frequency of type of group-cohesion respondents felt part of. N = 20.

On the individual level, secondly, two artificial characters were presented: 'Lukas' was framed as the example of the objective dimension, while 'Laura' was representing the subjective dimension of

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³² See topic list in Appendix G.

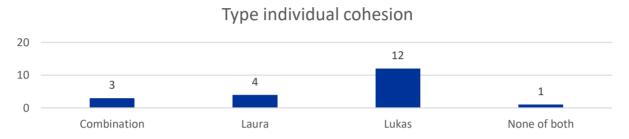
³³ 'Type 1' has the characteristics of the objective dimension, while 'Type 2' is located in the subjective dimension.

 $^{^{\}rm 34}$ The original Dutch phrasing of this and following quotes can be found in Appendix F.

cohesion³⁵. As Figure 4.5 shows, Lukas was far more popular than Laura, since most respondents struggled with the element of strong identity feelings that was typical in the case of Laura. In contrast, Lukas was thought to be more open and engaged, and thus more positive. Most respondents therefore disliked Laura:

"I totally cannot relate to Laura because I don't see myself as an inhabitant of my neighbourhood. I'm also not protective about the way I think nor am I negative towards others (...)" (R15).

Figure 4.5



Note. Displays case-frequency of which type respondents felt most resemblant with. N = 20.

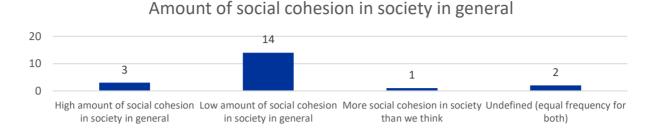
On the third point (i.e. how people see the amount of social cohesion in society today), a big majority (N = 17) experienced social cohesion in their own lives, but they all stressed this to only be on the individual level. This partly explains why at the same time, many (N = 14) believed there is a low amount of social cohesion in society *in general*. Contrasted with the high number of respondents experiencing cohesion in their personal lives, this means that there is a big difference between how people experience social cohesion in their own lives and in society at large.

"[...] So, in my own life I think okay there really is social cohesion, but then you see the news and you think like oh, it's totally not as beautiful as we would all hope. So yeah, it's really ambiguous" (R5).

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³⁵ See topic list in Appendix G for how characters were exactly described.

Figure 4.6



Note. Displays case frequency of amount of social cohesion respondents deemed there to be. N = 20.

Can these interpretations be confirmed by the data at hand? Tables 4.3 and 4.4 summarise the actual state of social cohesion in Flanders through the normalised indices of social cohesion. In that regard, on average it can be said that social cohesion in this dataset is not as low as suggested by the interviews³⁶. Interestingly, subjective cohesion proved to be somewhat stronger than its objective counterpart. This corresponds with the fact that most interviewees saw social cohesion to be something subjective indeed although they struggled applying the more abstract principles to their concrete daily lives.

Table 4.3Statistical overview of theoretical types of social cohesion operationalised

	Objective types		Subjecti	Grand		
	Type 1	Type 2	Type 3	Type 4	index ³⁷	
Mean	.5016	.4752	.6028	.5433	.5307	
Std. Deviation	.1689	.1988	.1817	.1778	.1281	
Range	[0,1]	[0,1]	[0,1]	[0,1]	[.14,.81]	
N	265	265	265	265	265	
Cronbach's a	.563	.619	.871	.559	.660	

Note. N = 265.

³⁶ This interpretation is built on the fact that all indices score around .5. However, this interpretation must take into account the way in which the indices are operationalized and normalized, see Appendix C.3.

³⁷ Here the overall mean of all types or components is presented as a single variable/index of social cohesion.

 Table 4.4

 Statistical overview of data-driven components of social cohesion operationalised

	Su	bjective typ	es	Objective types		Grand		
	C1	C2	C3	C4	C 5	C6	index ³⁷	
Mean	.5433	.5841	.4184	.4462	.5678	/	.5119	
Std. Deviation	.1779	.1489	.2431	.2099	.1971	/	.1160	
Range	[0,1]	[0,1]	[0,1]	[0,1]	[0,1]	/	[.18,.82]	
N	265	265	265	265	265	/	265	
Cronbach's a	.886	.841	.724	.701	.629	.444	.522	

Note. N = 265.

4.1.2 Polarisation in the province of Antwerp

Three types of polarisation were constructed based on both the deductive and inductive approaches: rational polarisation on the one hand, and morally polarised *attitudes* and morally polarised *behaviours* on the other (see conceptual meaning in Table 4.5).

Rational polarisation - being the process in which opposing groups in society cluster together based on rational disagreements - was operationalised on the extent to which respondents answered either extremely positive or negative on certain societal statements³⁸. Situated in the objective dimension, the variables in this index are strongly grouped together.

The variables operationalising emotional polarisation – in which opposing groups in society cluster together based on group identities and the emotions that are linked with that – were split into two components³⁹ consisting of attitudes (moral conception of groups) and behaviours (the specific actions undertaken on it). Hence, while the former deals with how people develop negative emotions towards other groups in society and morally denounce them based on their own group identity, the latter deals with the resulting behaviour from moral polarisation: it measures the extent to which people engage *less* with others in political or societal discussions⁴⁰.

³⁸ See Appendix C.2.1.

³⁹ See Appendix C.2.2 for specific procedure of principal component analysis.

⁴⁰ From a theoretical standpoint, it was expected that this low engagement would be confined to specific out-groups only. After all, most respondents indicated they do indeed feel negative emotions towards other groups in society. However, in this sample respondents were equally (un)prepared to discuss with both their in-group *and* out-group (Pearson correlation = .202**). As a result, the index of morally polarised behaviour in this sample thus measures the extent to which people discuss with other people regardless of their group identity.

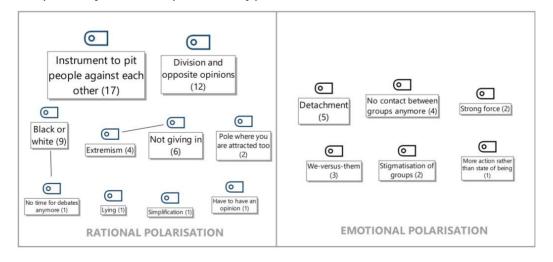
Combining all types of polarisation, the results show that there is a conceptual difference between rational polarisation and (the sub-components of) emotional polarisation. In practice they remain somewhat overlapping since rational polarisation is (weakly) correlated to morally polarised attitudes⁴¹, while morally polarised attitudes and morally polarised behaviour as the sub-components of emotional polarisation are not correlated.

Table 4.5Conceptual meaning of types of polarisation

Rational	Morally	Morally polarised	
polarisation	polarised attitudes	behaviour	
The process of clustering of	The phenomenon of showing negative	The extent to which people	
opposing groups within	attitudes towards specific groups based on	do not, and do not want to,	
society based on rational disagreements.	negative emotions, disagreement and the deliberate omission of certain issues.	discuss with other people on political and social matters.	

This theoretical conceptualisation makes sense with the individual respondents as well. Figure 4.7 summarises its interpretations contrasted with the two theoretical types. Here, polarisation was most strongly understood in the rational dimension. In the sphere of emotional polarisation, both morally polarised attitudes ('we-versus-them') and morally polarised behaviour ('detachment') were recognised, strengthening the relevance of operationalising emotional polarisation in that way.

Figure 4.7Graphical depiction of coded interpretations of polarisation



Note. Numbers display code frequency.

⁴¹ Pearson correlation = .149, significant at the 0.05 level.

Apart from the general conceptual understanding, many respondents (N = 13) saw polarisation also as something problematic – even when a moral judgement was never specifically asked:

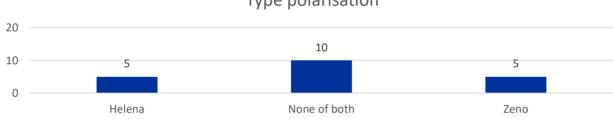
"Polarisation, I try not to be polarised, it's something moral, I just know it's wrong and that I should have less prejudices and the like, it's something which I don't like for myself" (R14).

Consequently, when asked whether they felt they were polarised themselves, 10 of them clearly stated they were not. However, when looking at respondents' individual polarisation scores⁴², only 3 could be excluded from polarisation at all. This might indicate a certain level of social desirability in respondents' answers on the one hand, explained by the negative judgement about polarisation in general, but on the other hand it shows that respondents' understanding of what it means to be polarised proved to be limited; they seemed not to be aware of the concept of emotional polarisation.

When presented with two characters who were polarised according to one of the two types of polarisation, 10 claimed they did not recognise themselves in any of the two (see Figure 4.8).

Type polarisation 20

Figure 4.8



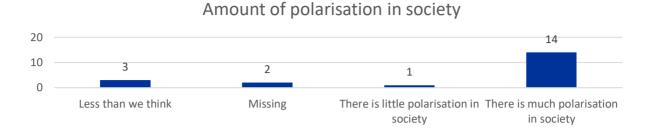
Note. Displays case frequency of type of polarisation respondents recognised in themselves. N = 20.

Lastly, when asked about their assessment of the amount of polarisation in today's society, a majority (N = 14) indicated there to be much polarisation, contrasted with only 4 who clearly stated this to be not true (see Figure 4.9).

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⁴² See Appendix E for analysis.

Figure 4.9



Note. N = 20.

Contrasted with these experiences, the actual state of polarisation in the province of Antwerp can be found in Table 4.6 and shows that polarisation is not as problematic as expected: rational polarisation is moderately present in this sample. Emotional polarisation as captured by morally polarised attitudes⁴³ and morally polarised behaviour⁴⁴, is weaker.

Table 4.6Statistical and conceptual overview indices of polarisation operationalised

	Rational polarisation	Morally polarised attitudes	Morally polarised behaviour
Mean	.5161	.3761	.4827
Std. Deviation	.2038	.3013	.2083
Range	[0,1]	[0,1]	[0,1]
N	265	265	265
Cronbach's a	.576	/	.922

Note. N = 265.

4.1.3 How social cohesion and polarisation have evolved over time

Given the concern about an increase of polarisation and a decrease of social cohesion (expressed by H4), the interviews also asked how respondents interpret social cohesion and polarisation to be evolving over time. As can be seen in Figure 4.10, 14 respondents believed social cohesion to have

⁴³ Important, as Appendix C.2.2 shows, this index is built on three dummy variables and consists of a four-point scale which has been normalized.

⁴⁴ Of course, since no distinction between which groups one discusses with could be made, high scores on this index could also point to general apathy to discuss about societal and political matters in general.

decreased over time, alongside 11 who thought polarisation to have increased. This observation thus confirms the hypothesis that these phenomena are in flux.

Figure 4.10



Note. Displays case frequency of how respondents perceived social cohesion and polarisation changing over time. N = 20.

4.2 The effects of polarisation upon social cohesion

With a solid univariate understanding of both concepts, the effects of polarisation as independent variable upon social cohesion as dependent variable will now be presented from a quantitative and qualitative viewpoint.

4.2.1 The effects of polarisation upon the types of social cohesion

To estimate whether polarisation has indeed decreased social cohesion and in what way, two multivariate models are presented: one for the theoretical types of cohesion and one for the data-driven components⁴⁵. Figure 4.11 summarizes the effects (measured by standardised regression coefficients) of the first model⁴⁶ graphically.

⁴⁵ The specific assumptions of the multivariate analysis can be found in Appendix D, the statistical output in Appendix G. Only the assumption of having no outliers is broken.

⁴⁶ Overall model fit significant on 0.00-level for Wilk's Lambda, Pillai's trace and Hotelling's trace, see Appendix G.

Morally polarised Morally polarised Rational attitudes behaviour polarisation .167** -.165*** -.126* -.200*** -.260*** - .239*** Type 1 social cohesion: Type 3 social cohesion: community-objective (social positioning and individual-objective (sub-group characteristics and individual-subjective community-subjective (sense of belonging (group emotions and common behaviour) identity feelings)

Figure 4.11Graphical depiction of effects of polarisation upon the theory-driven types of social cohesion

Note. Standardised regression coefficients, *** = p<.00, ** = p<.01, * = p<.05. N = 265.

In this model, all forms of polarisation affect at least one type of social cohesion. More specifically, the clustering of groups based on rational disagreements (rational polarisation) makes people feel less glued together on the community level. In other words, the more extreme opinions one has, the less one will feel belonging to wider society.

In turn, morally polarised behaviour diminishes how strong people are glued together on the two levels of the objective dimension. That is, a lower engagement with others means that people are also less connected or interrelated in the objective dimension. Furthermore, stronger morally polarised behaviour also causes people to *feel* less glued together on the individual level. This means that being less engaged makes people's identity-feelings to wider society and their own groups lower.

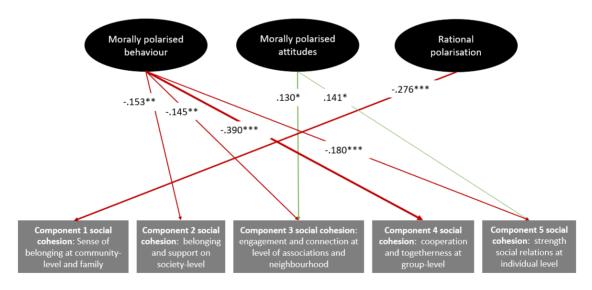
Lastly, the more negative emotions one has towards other groups (morally polarising attitudes), the *higher* one is glued together on the community level through a higher amount of social capital, but the *less* one feels glued together on that same level. This highlights the importance of distinguishing between the two dimensions as done in the theoretical framework: while negative group emotions mean that one's 'objective' social capital and social positioning in society will be *higher*, it also means that one's 'subjective' sense of belonging to society will be *lower*.

Figure 4.12 shows the effects of the types of polarisation on the data-driven components of social cohesion⁴⁷. Interestingly, this model confirms the general trends observed in the previous one. Firstly, rational polarisation also decreases how people feel belonging at the level of Flanders, their place of residence and their family (although there is no such effect at the Belgian level). In other words, the more extreme one's opinions, the less this type of belonging will be.

Secondly, the stronger morally polarised behaviour in this sample, the lower all remaining Components of social cohesion, with the effect on the objective ones being strongest (Components 3, 4, 5). In other words, the *less* people want to discuss with others, the *lower* a) they feel belonging to and support from the Belgian level, b) their engagement in associations and their neighbourhood, c) their cooperation in sub-groups and d) their strength of individual social relations.

Lastly, the higher one's negative feelings towards out-groups (morally polarised attitudes), the *more* people are glued together at the individual level and the *higher* their engagement and connection in associations or one's neighbourhood. This too confirms the earlier model in which morally polarised attitudes increase social capital. Negative emotions towards out-groups make objective social cohesion at the individual level stronger.

Figure 4.12Graphical depiction of the effects of polarisation upon the data-driven components of social cohesion



Note. Standardised regression coefficients, *** = p<.00, ** = p<.05. N = 265.

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⁴⁷ Overall model fit significant on 0.00-level for Wilk's Lambda, Pillai's trace and Hotelling's trace, see Appendix G.

All in all, only rational polarisation and the unpreparedness to discuss with others (morally polarised behaviour) *decrease* social cohesion as expected in H2. Unexpectedly, morally polarised attitudes understood as negative group emotions *increase* social cohesion, albeit always in the objective dimension only.

Further, the effects of polarisation on both the Components and Types of social cohesion are *not* categorised according to the two dimensions as H3 outlined; rather the opposite seems to be true. How people feel they are glued together through their sense of belonging or identity-feelings (i.e. subjective social cohesion at community level) is mostly decreased by rational polarisation. Furthermore, the way in which people are glued together based on social relations or common behaviour (i.e. objective social cohesion at community level), is *positively* affected by negative attitudes of opposing groups based on group identities and corresponding emotions (i.e. morally polarised attitudes).

Overall, these models therefore show that a significant relationship between social cohesion and polarisation indeed exists but that this is a complex relationship challenging the archetypical expectations on the subject.

4.2.2 Interpretation from respondents

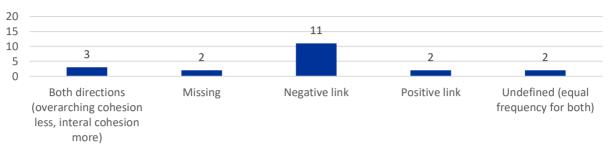
Can these findings also be confirmed by what people perceive thereof? As it turns out, 18 respondents indeed felt that polarisation could be linked to social cohesion (see Figure 4.13). From them, 11 saw this link to be negative, although not necessarily going from polarisation to social cohesion as measured above. Interestingly, 3 respondents stated this link to be two-sided: they felt that polarisation had increased in-group social cohesion between sub-groups in society, while at the same time decreasing overall cohesion for society at large. As one respondent put it nicely:

"On the one hand there will be *less* cohesion since many people are starting to step up for themselves (...), for example groups like BLM or LGBT-groups and so on (...) because they start to fight and other people disagree and so on. But *within* those groups, I would think there to be *more* cohesion" (R14).

The perceived increase of cohesion in these smaller groups therefore confirms the finding of the models above that negative group emotions might indeed increase social cohesion at the more individual level, while decreasing overall cohesion at the same time. Further, the general negative link understood by most of the other respondents is also confirmed.

Figure 4.13





Note. Displays case frequency of how respondents experience of social cohesion and polarisation to be linked. N = 20.

5 Discussion

The Flemish society has become increasingly divided over the latest years, mirroring broader global trends on increasing polarisation and division in societies. Considering the disuniting effects of the latter, this paper therefore expected that the social cohesiveness of Flanders has diminished significantly. It turns out that respondents share this worry: they felt an increasing concern about the decrease of social cohesion⁴⁸.

"[...] It really strikes me [silence]. It's weird right? I don't have a clear – I don't have one coherent feeling anymore [about society]. And as a result, when I focus too much on this, I sometimes regret having made children" (R7).

Can it therefore be said that this increase of polarisation has weakened social cohesion? To shed more light on this important yet under-researched question, this paper has explored the empirical effects of polarisation upon social cohesion in the specific case of the province of Antwerp. This paper has adopted a novel theoretical framework, and therefore takes an important first exploratory step in understanding the interplay of these concepts.

Such a framework is crucial: as stated in the theory already, social cohesion and polarisation are multidimensional concepts. To meaningfully operationalise these phenomena, this paper has therefore created multiple types within an objective dimension (looking from a distance at observable phenomena in society) and a subjective dimension (looking from within people's viewpoints at the more complex elements of feelings, attitudes and perceptions). The analysis then has confirmed that this framework can be operationalised, showing that social cohesion and polarisation empirically differ within those dimensions.

Based on the results, a renewed framework of social cohesion can be identified. In one's close circle on the individual level, togetherness is based on one's social relations and how one is positioned in one's network, as stated by the objective dimension. This was confirmed by the fact that almost all respondents viewed social cohesion in their personal lives to be about objective elements at the individual level⁴⁹. On the community level, by contrast, it was found that subjective elements like sense of belonging, feeling at home, or feeling a certain common identity define one's connection to society. In other words, social cohesion in smaller groups on the individual level mainly rests upon strong and personal relations (objective dimension), while social cohesion at the level of the broader community needs subjective elements like sense of belonging and identity to keep the bigger group

⁴⁸ Interestingly, this was only seen at the societal level.

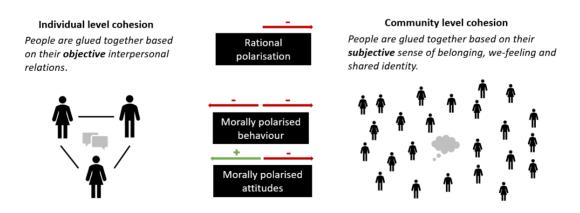
⁴⁹ Even though social cohesion was mostly seen as something subjective in general.

together. This result resembles the theory of imagined communities in which is stated that societies (being on the community level) stick together due to a common belief in a shared identity (Anderson, 1983).

This paper has then dissected the effects of polarisation on this framework of social cohesion. As can be seen in Figure 5.1 below, the study shows an interesting pattern. First, more extreme standpoints (rational polarisation) will decrease one's attachment to broader society on the community level but leave individual cohesion unaffected. This might be explained by the phenomenon of social sorting: people tend to engage more with people with similar standpoints in their intimate relations (Mason, 2015), limiting the effect of extreme standpoints to the feeling of attachment to broader society only. Second, one's unpreparedness to discuss with others (morally polarised behaviour) is most harmful towards social cohesion in general as it decreases both one's emotional connection to broader society and the strength of one's individual connections. Possibly, morally polarised behaviour leads to social isolation, which then explains the diminished attachment on both levels of cohesion.

Thirdly and most interestingly are the effects of negative out-group attitudes (morally polarised attitudes). As it turns out, these attitudes *diminish* one's ties to broader society but *strengthen* one's individual cohesion. These attitudes therefore follow the theory of positive in-group versus negative out-group dynamics (Tappin & McKay, 2019): negative feelings towards others in society increases ingroup cohesion but decreases one's emotional connections to everyone else.

Figure 5.1Graphical depiction of effects polarisation upon social cohesion



As a result, the relation between polarisation and social cohesion differs substantially from the initial theoretical expectations. Polarisation affects individual cohesion as a double-edged sword: on the one

hand it decreases when people's engagement to discuss with others is limited but increases with negative out-group feelings. On the other hand, community cohesion is consistently diminished by polarisation in the form of extreme standpoints, limited engagement to discuss and negative out-group attitudes.

These findings bear some implications. In general, this paper has shown the importance of adopting emotions and perceptions in social research. More specifically, it was found that to understand what makes a society glued together, one firstly has to distinguish between individual and community cohesion: individual cohesion consists mostly of objective interpersonal relations, while community cohesion is built on the basis of subjective elements like sense of belonging, we-feeling or shared identity. Secondly, polarisation most strongly threatens the community level of social cohesion. This might explain why respondents indicated that their individual social cohesion has not decreased significantly. Thirdly, limited engagement with others has the strongest individual effects on both levels of cohesion, making it a priority when protecting cohesion at large. Lastly, empirical proof for the double-edged sword of in-group and out-group dynamics upon social cohesion was established. As experienced by respondents as well, this type of polarisation divides overall cohesion by strengthening the togetherness of individual groups.

Acknowledging the fact that these exploratory results are based on a sample limited in representative scope and might be biased by the researcher's personal worldviews, this paper serves as a starting point for future research in the field. Studies in this strand of research should scrutinise the specific effects found in this paper on a wider geographical scale, theoretically enhance the proposed framework of social cohesion and polarisation individually or look more specifically at why people are getting emotionally and rationally polarised in the first place (although going beyond the scope of this paper, the interviews indicated the high importance of social media in that regard). For such studies, this paper has hoped to show the importance of incorporating emotions and perceptions, given their crucial relevance in understanding society's togetherness. After all, in today's divisive times, research of this kind is highly important.

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7 Appendices

Appendix A - Statistical overview of the samples

A.1 Grand sample

Figure 7.1

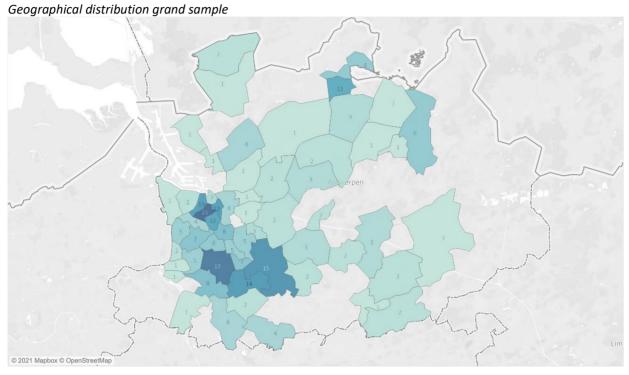
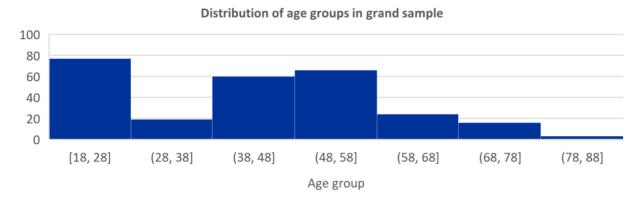


Table 7.1Descriptives grand sample

Continuous variables	N	Mean	Minimum	Maximum
Age (Q2.2)	265	43.13	18	82
Categorical variables	N	Categories	Categories Frequency	
Gender	265	Male	115	43.3%
(Q2.1)	_	Female	150	56.6%
Nationality	265	Belgium	261	98.5%
(Q2.3)		Italy	1	0.4%
	_	Netherlands	2	0.8%
	_	Spain	1	0.4%
Residence	265	City	113	42.6%
(Q2.6)	_	Municipality	152	57.4%
Income level	261	Very difficult to cope	5	1.9%
(Q3.6)	_	Difficult to cope	13	4.9%
	_	Coping	103	38.9%
	_	Coping comfortably	140	52.8%
Educational level	264	Elementary school	1	0.4%
(Q3.7)	_	High school	52	19.6%
	_	Bachelor	100	37.7%
	_	Master	106	40%
	_	PhD	5	1.9%
Employment status	263	Unemployed	9	3.4%
(Q3.8)		Retired	31	11.7%

Student	54	20.4%
Part-time working	40	15.1%
Full-time working	123	46.4%
Sick leave	6	0.8%

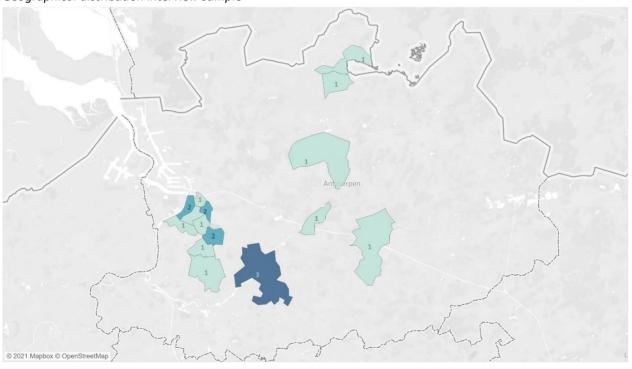
Figure 7.2



Note. N = 265.

A.2 Interviewees sample

Figure 7.3 *Geographical distribution interview sample*



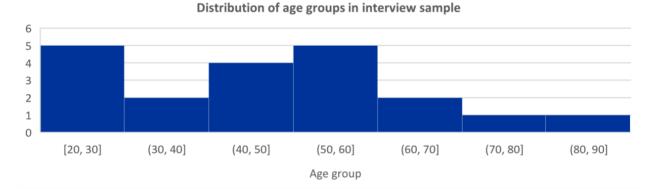
Note. N = 20

Table 7.2Description interviewees sample

Continuous variables	N	Mean	Minimum	Maximum
Age (Q2.2)	20	43.13	20	81
Categorical variables	N	Categories	Frequency	
Gender	20	Male	10	50%
(Q2.1)		Female	10	50%

Nationality	20	Belgium	19	95%
(Q2.3)	_	Netherlands	1	5%
Residence	20	City	14	70%
(Q2.6)		Municipality	6	30%
Income level	20	Very difficult to cope	0	0%
(Q3.6)	_	Difficult to cope	0	0%
		Coping	9	45%
	_	Coping comfortably	11	55%
Educational level	20	Elementary school	0	0%
(Q3.7)	_	High school	3	15%
	_	Bachelor	8	40%
	_	Master	9	45%
	_	PhD	0	0%
Employment status	20	Unemployed	0	0%
(Q3.8)		Retired	3	15%
		Student	4	20%
		Part-time working	3	15%
		Full-time working	9	45%
	_	Sick leave	0	0%

Figure 7.4



Note. N= 20.

Appendix B - Sampling method interview sample

To select the 20 interviewees from the grand sample, first 10 respondents were chosen at random, but controlled for age by selecting representatively per age-group.

The other 10 respondents were chosen on the basis of a) a social cohesion index based on the sum of 13 variables stemming from the theoretical types; b) a polarisation index based on the variables indicating their preferences for the political statements in the survey. More specifically, these indexes were built in the following way:

- <u>Social cohesion index</u>: sum of variables Q3.1, Q3.2, Q3.3_1, Q3.3_2, Q3.10_1, Q5.2_3, Q5.2_4, Q3.5_2, Q5.4_1, Q5.6_1, Q5.6_2, Q4.1_1, Q6.4. The following respondents were selected: 2 with very high scores, 1 with medium scores, 2 with very low scores.
- <u>Polarisation index</u>: based on variables Q7.7_1, Q7.7_2, Q7.7_3, Q7.7_4, Q7.7_5, Q7.7_6, Q7.7_7 for which the following syntax was used: (COUNT IF 0 + COUNT IF 10) COUNT IF 5. The following respondents were selected: 2 with negative scores (indicating very low polarisation), 1 with medium scores, 2 with very high scores.

Appendix C - Creation new variables social cohesion and polarisation

C.1 Social cohesion

C.1.1 Theory driven approach

Here, the variables (for questionnaire and overview of variables, see Appendix G) indicating to the four different theoretical types were used to check their internal reliability based on the Cronbach's alpha test. Before doing this test, the variables were prepared by recoding the ordinal variables to a scale of 1 to 10 to bring them on the same scale as the interval variables (see syntax in Appendix G). Also, the variables measuring people's attitudes in their city or municipality were combined because they were extracted from the survey as two distinct variables grouped by whether they live in a city or municipality.

Below, tables 7.3 to 7.6 indicate the descriptives of the variables used per type. Table 7.7 gives an overview of the results of the reliability analyses.

Table 7.3Descriptives variables Type 1

	N	Range	Minimum	Maximum	Mean	Std. Deviation
Q3.1R*	265	7.50	2.50	10.00	4.3585	1.39797
Q3.2R*	265	7.50	2.50	10.00	6.5943	2.36982
Q3.3_1	265	6.00	4.00	10.00	8.2189	1.13369
Q3.3_2	265	8.00	1.00	9.00	5.1887	1.53811
Q3.4_1	265	9.00	1.00	10.00	6.5887	1.93078
Q3.5_1	265	9.00	1.00	10.00	8.1472	1.61346
Q3.5_2	265	8.00	1.00	9.00	4.9660	1.91158
Q3.6R*	261	7.50	2.50	10.00	8.6207	1.70232
Q3.7R*	259	10.00	.00	10.00	7.4903	2.79723
Q3.8R*	263	7.50	2.50	10.00	7.5760	2.52732
Q3.9R*	265	10.00	.00	10.00	6.3396	2.16457
Q3.10_4	265	9.00	1.00	10.00	6.0264	2.12918
Q3.10_5	265	9.00	1.00	10.00	5.6415	2.23178
Q3.10_6	265	9.00	1.00	10.00	4.2075	2.39443

Note. N = 253.

Table 7.4Descriptives variables Type 2

	N	Range	Minimum	Maximum	Mean	Std. Deviation
Q4.1_1	265	27.00	.00	27.00	2.5811	2.91970
Q4.1_2	265	30.00	.00	30.00	11.2528	8.09135
Q4.2_1	211	9.00	1.00	10.00	5.0427	2.83231
Q4.3_1	211	9.00	1.00	10.00	5.7251	2.70630
Q4.4_1	265	9.00	1.00	10.00	3.1849	2.40260
Q4.5_1	265	9.00	1.00	10.00	5.2981	2.46909
Q4.5_2	265	9.00	1.00	10.00	4.3358	2.63794
Q4.5_3	265	9.00	1.00	10.00	5.0226	2.49231
Q4.5_4	265	9.00	1.00	10.00	4.8000	2.54386
Q4.6_14	265	8.00	1.00	9.00	5.3283	1.83860
Q4.6_2	265	9.00	1.00	10.00	7.6000	1.62089
Q4.6_3	265	9.00	1.00	10.00	4.8151	1.78794
Q4.6_5	265	9.00	1.00	10.00	4.8792	1.70798

Note. N = 211.

^{*}These interval-variables have been recoded to a scale on 10 to give them equal weight as the other metric variables

Table 7.5Descriptives variables Type 3

	N	Range	Minimum	Maximum	Mean	Std. Deviation
Q5.1_1	265	10.00	.00	10.00	5.6264	2.38208
Q5.1_2	265	10.00	.00	10.00	5.2113	2.71930
Q5.1_34	265	10.00	.00	10.00	6.0528	2.69347
Q5.2_1	265	10.00	.00	10.00	5.5547	2.38163
Q5.2_2	265	10.00	.00	10.00	5.2453	2.61338
Q5.2_34	265	10.00	.00	10.00	5.9585	2.61301
Q5.2_5	265	10.00	.00	10.00	8.5623	1.90018
Q5.3_1	265	10.00	.00	10.00	7.5094	2.04331
Q5.3_2	265	10.00	.00	10.00	7.1962	2.43848
Q5.3_34	265	9.00	1.00	10.00	7.6189	2.15542
Q5.3_5	265	10.00	.00	10.00	8.8377	1.84229
Q5.4_1	265	9.00	1.00	10.00	6.4868	1.67897
Q5.6_1	265	10.00	.00	10.00	6.6679	1.95477
Q5.6_2	265	9.00	.00	9.00	4.9736	2.08241

Note. N = 265.

Table 7.6Descriptives variables Type 4

	N	Range	Minimum	Maximum	Mean	Std. Deviation
Q6.1_1	263	10.00	.00	10.00	7.1293	1.51532
Q6.1_2	265	9.00	1.00	10.00	6.3170	1.62296
Q6.3_1	261	9.00	1.00	10.00	6.6667	2.31882
Q6.3_3	261	9.00	1.00	10.00	5.9387	2.58919
Q6.3_24	261	9.00	1.00	10.00	6.5479	2.62873
Q6.4_1	265	9.00	1.00	10.00	5.6491	2.31952

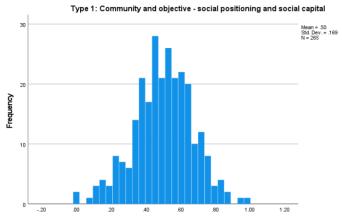
Note. N = 259.

Table 7.7Overview reliability analyses theoretical types social cohesion

	Type 1	Type 2	Type 3	Type 4	Grand index
Cronbach's alpha	.563	.619	.871	.559	.660
N of items	14	13	14	6	4
N	253	211	265	259	265

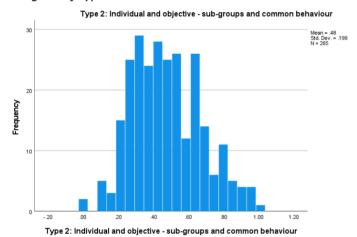
The indexes were then created by summing their underlying variables and then rescaling them to a range of 0 to 1 using the formula (x-max)/(max-min). Figures 7.5 to 7.9 show their histograms.

Figure 7.5 *Histogram of Type 1*



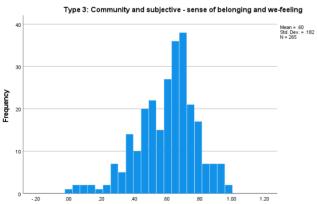
Type 1: Community and objective - social positioning and social capital

Figure 7.6 *Histogram of Type 2*



Type 2. Individual and objective - sub-groups and common benavious

Figure 7.7 *Histogram of Type 3*



Type 3: Community and subjective - sense of belonging and we-feeling

Figure 7.8 *Histogram of Type 4*

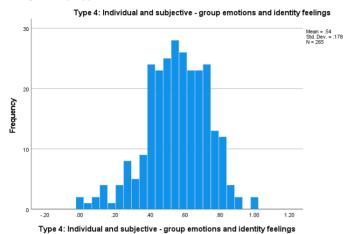
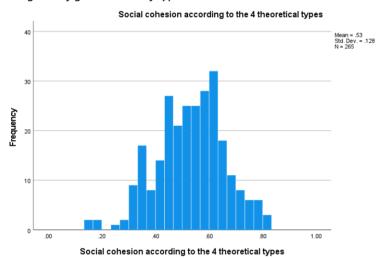


Figure 7.9 *Histogram of grand index of types*



C.1.2 Data-driven approach

Secondly, all the variables used for the four types were inserted in a two-step principal component analysis using a VARIMAX rotation using the correlation-method.

In the first step, this resulted in following output from table 7.8 to 7.10. Table 7.8 shows that the KMO is close to 1, indicating that the underlying variance is indeed diffused enough to suppose that underlying factors exist. The Barlett's Test being significant indicates that the variables are related. Based on the explained variance in Table 7.9 and on the 'elbow' in the Scree Plot in Figure 7.10, it was decided to extract 6 components.

Table 7.8 *Barlett's KMO-test*

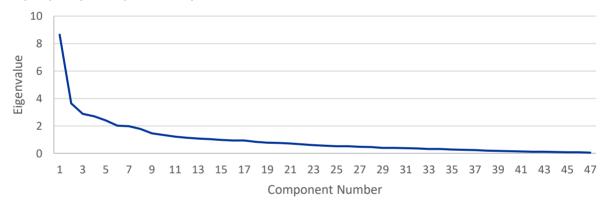
Kaiser-Meyer-Olkin Measure of Samplin	.750	
Bartlett's Test of Sphericity	Approx. Chi-Square	5180.081
	df	1081
	Sig.	.000

Table 7.9 *Total variance explained (Eigenvalue >1)*

	Initial Eige	nvalues		Extraction Sums of Squared Loadings		
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	8.649	18.403	18.403	8.649	18.403	18.403
2	3.625	7.713	26.117	3.625	7.713	26.117
3	2.881	6.130	32.247	2.881	6.130	32.247
4	2.686	5.716	37.962	2.686	5.716	37.962
5	2.400	5.106	43.068	2.400	5.106	43.068
6	2.008	4.272	47.340	2.008	4.272	47.340
7	1.973	4.198	51.538	1.973	4.198	51.538
8	1.780	3.787	55.325	1.780	3.787	55.325
9	1.447	3.079	58.404	1.447	3.079	58.404
10	1.343	2.857	61.261	1.343	2.857	61.261
11	1.213	2.580	63.841	1.213	2.580	63.841
12	1.134	2.413	66.254	1.134	2.413	66.254
13	1.077	2.291	68.545	1.077	2.291	68.545
14	1.040	2.213	70.758	1.040	2.213	70.758

Note. Extraction Method: Principal Component Analysis. N = 265.

Figure 7.10Scree plot principal component analysis social cohesion



In a second step, the principal component analysis was repeated by forcing 6 components to be extracted. This resulted in the following output. Based on the factor scores in table 7.10, the variables are then assigned to the 6 components.

Table 7.10 *Rotated component matrix social cohesion*

	1	2	3	4	5	6
Q3.1R	0.145	0.042	0.123	0.190	0.150	0.107
Q4.5_4	0.106	0.130	0.001	0.868	0.087	-0.035
Q6.4_1	0.084	0.077	0.172	0.288	0.084	-0.171
Q4.5_1	0.025	-0.123	0.030	0.608	0.086	0.265
Q4.5_3	0.010	0.129	0.070	0.837	0.063	0.022
Q4.5_2	-0.074	-0.080	0.053	0.655	0.120	-0.159
Q3.2R	-0.120	0.073	0.347	0.304	-0.037	0.202
Q3.3_1	0.112	-0.117	-0.106	0.059	0.474	0.261
Q3.10_4	0.095	0.159	0.107	0.100	0.509	-0.139
Q3.4_1	0.089	-0.092	0.268	0.088	0.440	0.173
Q3.3_2	0.087	0.147	-0.224	0.152	0.543	-0.270
Q3.10_5	-0.034	0.080	0.158	0.038	0.636	0.047

		<u>.</u>	<u> </u>			
Q3.10_6	-0.200	0.154	0.008	0.178	0.530	-0.110
Q4.4_1	0.146	0.166	0.626	0.176	0.205	-0.190
Q4.2_1	0.075	0.054	0.804	-0.007	0.137	-0.089
Q4.3_1	0.074	0.118	0.775	0.006	0.132	-0.020
Q4.1_2	-0.093	-0.006	0.509	0.257	-0.279	0.212
Q5.4_1	0.309	0.468	-0.128	0.049	0.107	0.272
Q6.1_1	0.303	0.432	0.071	-0.069	0.263	0.216
Q5.3_1	0.300	0.691	0.196	-0.035	0.011	0.253
Q5.1_1	0.298	0.681	0.174	0.042	-0.046	-0.177
Q5.2_1	0.152	0.773	0.178	-0.017	-0.132	-0.087
Q4.6_5	0.137	0.690	-0.023	0.139	0.131	-0.155
Q6.3_1	0.125	0.739	0.179	-0.055	-0.086	-0.070
Q5.6_1	0.118	0.499	-0.140	0.135	0.104	0.110
Q6.1_2	0.075	0.507	0.034	0.004	0.232	0.141
Q3.5_2	-0.101	0.541	-0.016	0.009	0.096	0.028
Q5.2_2	0.817	0.119	-0.073	-0.057	-0.029	-0.112
Q5.1_2	0.813	0.031	-0.100	-0.029	0.019	-0.204
Q5.1_34	0.774	0.130	0.205	0.025	0.014	0.059
Q6.3_3	0.772	0.014	-0.045	-0.031	-0.025	-0.143
Q5.3_2	0.722	0.159	-0.029	-0.062	0.098	0.201
Q5.2_34	0.715	0.170	0.249	0.110	-0.058	0.126
Q6.3_24	0.695	0.060	0.363	0.046	-0.056	0.109
Q5.3_34	0.689	0.160	0.202	0.019	0.000	0.280
Q4.6_3	0.635	0.217	-0.174	0.092	0.128	-0.121
Q4.6_14	0.547	0.182	0.017	0.171	0.091	0.057
Q5.2_5	0.506	-0.025	0.000	-0.110	0.332	0.398
Q5.3_5	0.505	0.044	0.026	-0.161	0.360	0.476
Q5.6_2	0.425	0.300	-0.258	0.057	0.106	-0.083
Q4.6_2	0.394	0.148	0.038	0.014	0.347	0.212
Q4.1_1	0.212	-0.007	0.192	0.094	0.006	-0.170
Q3.8R	0.079	0.172	-0.303	0.254	-0.049	0.483
Q3.6R	0.077	0.152	0.004	0.007	0.035	0.521
Q3.5_1	0.074	0.124	0.124	-0.024	0.390	0.492
Q3.9R	-0.026	0.128	-0.051	-0.003	-0.018	-0.286
Q3.7R	-0.161	0.020	-0.107	-0.008	-0.173	0.531

To check whether they are also internally reliable, the Cronbach's alpha for the 6 components was then calculated. The result of this can be found in table 7.11. As can be seen in the lower row, some variables were excluded to increase the value of the Cronbach's alpha to acceptable levels. However, the Cronbach's alpha of Component 6 was deemed unsatisfactory, and was therefore not operationalised. All the other components and the overall index of social cohesion based on the 5 components were summed and then rescaled to [0,1] with the formula (x-max)/(max-min). Figures 7.11 until 7.16 show the histograms of these indices.

Table 7.11 *Reliability analysis component social cohesion*

	C1	C2	C3	C4	C5	C6	Grand index
Cronbach's alpha	.886	.841	.724	.701	.629	.444	.522
N of items	15	10	4	6	6	4	5
N	261	259	211	265	253	253	265
Excluded variables	/	/	Q4.1_2	/	/	Q3.9R	/

Figure 7.11 *Histogram Component 1*

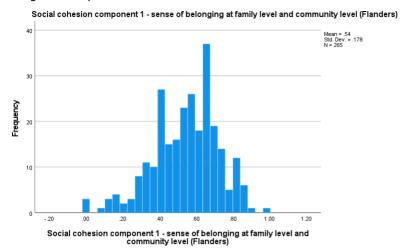


Figure 7.12 *Histogram Component 2*

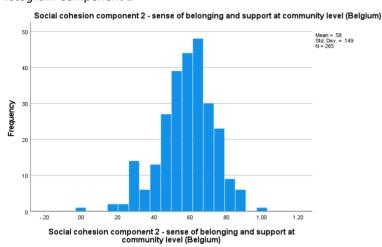


Figure 7.13 *Histogram Component 3*

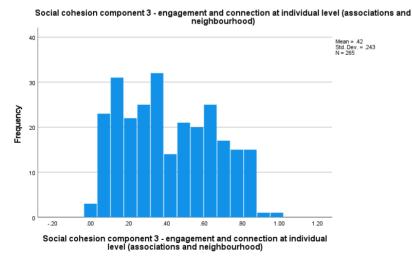


Figure 7.14 *Histogram Component 4*

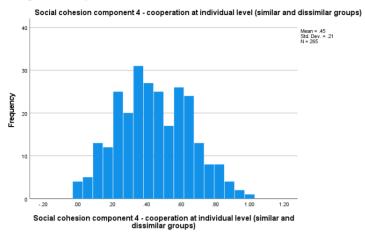


Figure 7.15 *Histogram Component 5*

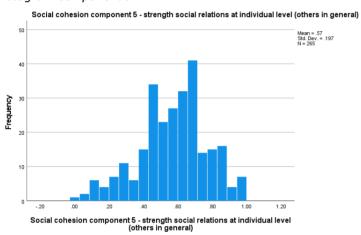
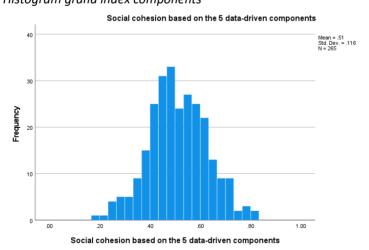


Figure 7.16 *Histogram grand index components*



C.1.3 Correlation between types and components

Table 7.12 shows how the components and types of social cohesion are correlated to one another.

Table 7.12Correlation matrix between the components ('C') and types ('T') of social cohesion

		C1	C2	C3	C4	C5	T1	T2	T3	T4
C1	Pearson Correlation	1	.445**	.152*	.046	.140*	.159**	.305**	.906**	.720**
	Sig. (2-tailed)		.000	.013	.461	.022	.009	.000	.000	.000
	N	265	265	265	265	265	265	265	265	265
C2	Pearson Correlation	.445**	1	.199**	.105	.167**	.286**	.289**	.702**	.670**
	Sig. (2-tailed)	.000		.001	.087	.006	.000	.000	.000	.000
	N	265	265	265	265	265	265	265	265	265
С3	Pearson Correlation	.152*	.199**	1	.205**	.169**	.218**	.736**	.122*	.209**
	Sig. (2-tailed)	.013	.001		.001	.006	.000	.000	.047	.001
	N	265	265	265	265	265	265	265	265	265
C4	Pearson Correlation	.046	.105	.205**	1	.272**	.264**	.564**	.060	.198**
	Sig. (2-tailed)	.461	.087	.001		.000	.000	.000	.331	.001
	N	265	265	265	265	265	265	265	265	265
C 5	Pearson Correlation	.140*	.167**	.169**	.272**	1	.734**	.235**	.137*	.179**
	Sig. (2-tailed)	.022	.006	.006	.000		.000	.000	.025	.003
	N	265	265	265	265	265	265	265	265	265
T1	Pearson Correlation	.159**	.286**	.218**	.264**	.734**	1	.280**	.196**	.213**
	Sig. (2-tailed)	.009	.000	.000	.000	.000		.000	.001	.000
	N	265	265	265	265	265	265	265	265	265
T2	Pearson Correlation	.305**	.289**	.736**	.564**	.235**	.280**	1	.239**	.308**
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000		.000	.000
	N	265	265	265	265	265	265	265	265	265
Т3	Pearson Correlation	.906**	.702**	.122*	.060	.137*	.196**	.239**	1	.732**
	Sig. (2-tailed)	.000	.000	.047	.331	.025	.001	.000		.000
	N	265	265	265	265	265	265	265	265	265
T4	Pearson Correlation	.720**	.670**	.209**	.198**	.179**	.213**	.308**	.732**	1
	Sig. (2-tailed)	.000	.000	.001	.001	.003	.000	.000	.000	
	N	265	265	265	265	265	265	265	265	265

Note. **. Correlation is significant at the 0.01 level (2-tailed). *. Correlation is significant at the 0.05 level (2-tailed).

C.2 Polarisation

C.2.1 Theory driven approach

Regarding rational polarisation, the variables of the political and societal statements were used. To operationalise them into a polarisation-index, they were first recoded so that the extreme values were given the highest value (10 = 5, 0 = 5, 9 = 4, 1 = 4, 8 = 3, 2 = 3, etc. see syntax Appendix G). In that way, the actual societal or political preference was overwritten by the way in which the statement was answered.

Table 7.13Descriptive Statistics variables rational polarisation

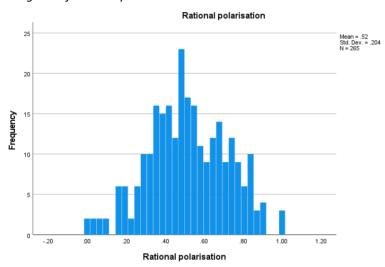
	N	Range	Minimum	Maximum	Mean	Std. Deviation
Q7.7_1R	265	5.00	.00	5.00	3.5283	1.59787
Q7.7_2R	265	5.00	.00	5.00	2.6302	1.66715
Q7.7_3R	265	5.00	.00	5.00	3.2642	1.75541
Q7.7_4R	265	5.00	.00	5.00	3.0302	1.86856
Q7.7_5R	265	5.00	.00	5.00	2.6906	1.65674
Q7.7_6R	265	5.00	.00	5.00	2.7698	1.71332
Q7.7_7R	265	5.00	.00	5.00	2.0868	1.62019

Then, reliability analysis of these recoded variables indicated that they indeed point to one single scale. In the last step, these variables were then summed and rescaled to the range of [0,1] based on the formula (x-min)/(max-min). Figure 7.17 shows its histogram.

Table 7.14 *Reliability analysis rational polarisation*

	Rational polarisation index
Cronbach's alpha	.576
N of items	7
N	265

Figure 7.17
Histogram of rational polarisation



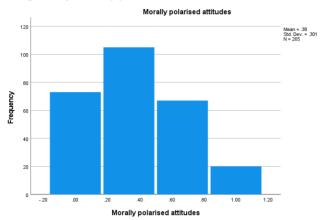
Regarding emotional polarisation, two strands of variables were created. Based on the definition, the first sub-component is morally polarised attitudes, which is defined as developing negative attitudes and emotions towards out-groups due to the fact that they are seen as morally wrong or bad. For this component, the variables Q6.2, Q7.6 and Q7.4 were recoded to dummy-variables with the reference categories respectively being 'negative emotions to certain groups', 'reason for not agreeing is that the other belongs to another political group' and 'omitting certain issues'. The frequencies of these variables can be found in Table 7.15.

Table 7.15Frequencies variables morally polarised attitudes

		Negative emotions to certain groups dummy	Reason for not agreeing dummy - other political group	Issues you omit dummy
N	0 (no)	185	112	154
	1 (yes)	80	133	86

On the basis of these dummy-variables, a new scale of morally polarised attitudes was constructed summing these variables, resulting in a 4-point scale, with scoring all 4 points meaning that one has negative emotions to certain groups, disagrees with others due to their political group and omits certain issues. To be able to properly compare this index with the other indices, this was then normalised to a range of [0,1] based on the formula (x-min)/(max-min). Figure 7.18 shows the histogram of this variable.

Figure 7.18 *Histogram of morally polarised attitudes*

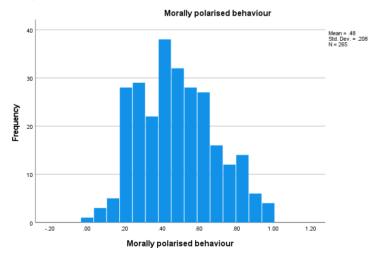


Secondly, the variables indicating the preparedness to and actual enactment of discussing about social or political issues with a) people one knows versus people one doesn't know and b) people with a similar worldview versus people with a different worldview were negatively recoded in order to measure the non-engagement towards discussion (morally polarised behaviour). These variables were then subjected to a reliability analysis (see Table 7.16) which was deemed satisfactory. Ultimately, they were summed and rescaled to the range of [0,1] based on the formula (x-min)/(max-min). Figure 7.19 shows its histogram.

Table 7.16 *Reliability analysis morally polarised behaviour*

	Morally polarised behaviour
Cronbach's alpha	.922
N of items	8
N	265

Figure 7.19 *Histogram of morally polarised behaviour*



Now, reliability analysis to combine those two into one scale of emotional polarisation was deemed unsatisfactory (see Table 7.17), thereby concluding that no such unified scale can be made.

Table 7.17 *Reliability analysis emotional polarisation index*

	Emotional polarisation index
Cronbach's alpha	074
N of items	2
N	221

C.2.2 Data-driven approach

These analyses were then complemented with a principal component analysis using a VARIMAX rotation using the correlation-method with all variables of emotional polarisation used before. Table 7.18 shows that the KMO is close to 1, indicating that the underlying variance is indeed diffused enough to suppose that underlying factors exist. The Barlett's Test being significant indicates that the variables are related. Based on the explained variance in Table 7.19 and on the 'elbow' in the Scree Plot in Figure 7.20, it was decided to extract 3 components.

From the rotated component matrix in Table 7.20 it can then be nicely seen how the components overlap with the variables created above on the basis of the theory. Therefore, no additional variables are created.

Table 7.18 *KMO and Bartlett's Test*

Kaiser-Meyer-Olkin Measure of Sampling Adequacy769			
Bartlett's Test of Sphericity	Approx. Chi-Square	1582.614	
	df	153	
	Sig.	.000	

Table 7.19 *Total variance explained principal component analysis polarisation (Eigenvalue >1)*

_	Initial Eigenvalues			Extraction	Sums of Square	d Loadings
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	5.267	29.262	29.262	5.267	29.262	29.262
2	2.157	11.983	41.245	2.157	11.983	41.245
3	1.265	7.029	48.274	1.265	7.029	48.274
4	1.179	6.548	54.823	1.179	6.548	54.823
5	1.101	6.119	60.941	1.101	6.119	60.941
6	1.022	5.681	66.622	1.022	5.681	66.622

Note. Extraction Method: Principal Component Analysis

Figure 7.20Scree plot principal component analysis polarisation

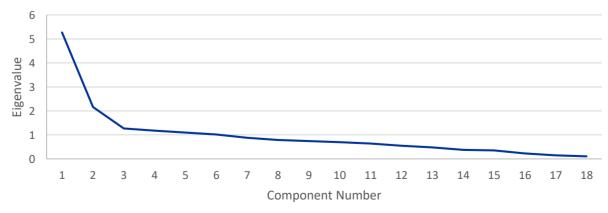


Table 7.20 *Rotated component matrix polarisation*

		Component				
	1	2	3			
Q6.2D	231	.184	.637			
Q7.2_1R	.772	.030	005			
Q7.2_2R	.812	.014	.064			
Q7.2_3R	.745	147	.006			
Q7.2_4R	.816	.051	.122			
Q7.3_1R	.812	051	085			
Q7.3_2R	.836	.032	055			
Q7.3_3R	.768	134	168			
Q7.3_4R	.816	.068	028			
Q7.4D	.135	.046	.736			
Q7.6D	027	.135	.141			
Q7.7_1R	091	.488	309			
Q7.7_2R	074	.621	.166			
Q7.7_3R	.038	.393	333			
Q7.7_4R	188	.543	.030			
Q7.7_5R	023	.695	.018			
Q7.7_6R	.126	.504	.096			
Q7.7 7R	.136	.465	.196			

Note. Extraction Method: Principal Component Analysis. Rotation Method: Varimax with Kaiser Normalization.

C.2.3 Correlation between types of polarisation

Table 7.21 *Correlation matrix types of polarisation*

		Morally polarised	Morally polarised	Rational
		attitudes	behaviour	polarisation
Morally polarised attitudes	Pearson Correlation	1	063	.127*
	Sig. (2-tailed)		.309	.038
	N	265	265	265
Morally polarised behaviour	Pearson Correlation	063	1	082
	Sig. (2-tailed)	.309		.184
	N	265	265	265
Rational polarisation	Pearson Correlation	.127*	082	1
	Sig. (2-tailed)	.038	.184	
	N	265	265	265

Note. *. Correlation is significant at the 0.05 level (2-tailed).

C.3 On Min-Max normalisation

It was chosen to normalise the variables on the basis of the formula (x-min)/(max-min) because of the fact that it doesn't change any values within the variable, but rather rescales all indices to comparable scales of [0,1], allowing for a better interpretation. It is most useful when no outliers are reported (because they tend to skew the resulting scale), which was indeed not the case (Vafaei, Ribeiro, & Camarinha-Matos, 2020). Furthermore, it was deliberately chosen not to use standardised values because of their difficulty to interpret them. This approach has been used and discussed in various previous studies which create multi-dimensional scales (Maggino, 2017). However, it must be said that the technique is not optimal to measure the amount of polarisation or cohesion, since it tends to portray a mean of means, thereby always being around the centre.

C.4 Newly created variables based on the interviews

After having been coded according to the codebook (Appendix G), new variable were created via MAXQDA-software, in which the frequency of the subcodes (which became the categories of the variables as seen in the

codebook) were counted and the most frequent occurring subcode became the dominant category of the respondent for that specific variable. If the same amount of subcodes occurred, the variable was given the extra category 'undefined'. If no subcode occurred for that respondent on a certain variable, the variable was left blank and treated as a missing. The conceptual overview can be found below (Table 7.22), the frequency tables of the relevant variables have been inserted in the analysis above.

Table 7.22Newly created variables based on coding from interviews

Social cohesion

Change over time	Way in which cohesion has changed	Level of social cohesion	Level of physical social cohesion	Amount of overall social cohesion in society	Personal experience social cohesion
Yes	Increased	Mostly physical	Local level	Little	Yes
No	Decreased	Mostly non- physical	Community level	Much	No
Undefined	Undefined			Undefined	

Polarisation

Amount of polarisation in society	Emotional polarisation	Polarised yourself	Change over time
Little	In-group/out-group dynamics	Yes	Yes, increased
Less than we think	No in-group/out-group dynamics	No	No, didn't change
Much		Undefined	Undefined

Link polarisation and social cohesion

Is there a link?	Type of link
Yes	Positive correlation
No	Negative correlation
	Both positive and negative
	Undefined

Appendix D - Assumptions of the multivariate tests and models

As stated, the models are built upon a full-factorial Multivariate Multiple Regression or canonical regression analysis. Therefore, this section gives the evaluation of the assumptions of this analysis.

First of all, regression models are built upon the assumption of Independent Random Sampling in order to be able to generalise the results to the wider population. This assumption has been violated despite the effort to be as random as possible, due to the fact that the sample hasn't been drawn in an exclusively random manner. As a result, the results cannot be generalised to a wider population.

Secondly, regression analysis is built upon the assumption of normality. When assessing all variables in the model for normality based upon Q-Q plots (see output in Appendix G), it seems that normality is mostly achieved, except with morally polarised attitudes due to the way in which it was operationalised.

Thirdly, there is the assumption of linearity. Given the theoretically assumed linear links between the independent and dependent variables, this assumption is not specifically checked but deemed satisfactory by the design of the study.

Fourthly, linear regression is affected by outliers. As can be seen in the output (Appendix G), some outliers were identified in 7 variables used. This assumption is thus broken and should be taken into account when interpreting the results.

Lastly, there must be an absence of multicollinearity with regards to the independent variables. As the correlation matrix of rational polarisation, morally polarised attitudes and morally polarised behaviour indicates (see Appendix C.2.3), no variables are higher correlated than .8 so that assumption has been satisfied as well.

Appendix E - Mixed-methods analysis self-evaluation polarisation

In order to check whether respondents rightly claim to be (non)polarised, the responses have been contrasted with the individual scores on the indices of polarisation, as can be seen in Table 7.23 below. Whenever one of the 3 indices are more than .5, the respondent is considered to be polarised (with .5 being the mean). The last column then states whether the respondent contradicts him or herself.

Table 7.23 *Mixed-methods analysis self-evaluation polarisation*

Respondent nr.	Polarised?	Which type?	Rational polarisation (1)	Morally polarised attitudes (2)	Morally polarised behaviour (3)	Mean polarisation	Conclusion
1	Says no	None		, ,	• • • • • • • • • • • • • • • • • • • •		Contradiction:
			0.48	0.00	0.72	0.40	3
2	Tries not to	None					Contradiction:
	be polarised		0.74	0.33	0.60	0.56	1 and 3
3	Says yes	Sometimes					No
	(against	Helena					contradiction:
	wokeness)		0.84	0.67	0.13	0.55	polarised
4	Says no	None					Contradiction:
			0.77	0.67	0.25	0.56	1 and 2
5	Says yes but	None					No
	fights						contradiction:
	against it		0.35	0.67	0.24	0.42	polarised
6	Says yes	Little more					No
	(against	Zeno					contradiction:
	racists and						polarised
	injustice)		0.84	1.00	0.58	0.81	
7	Says to be	More Zeno					No
	strongly						contradiction:
	polarised		0.74	0.67	0.61	0.67	polarised
8	Says no (not	None					No
	in character						contradiction:
	but strong						not polarised
	opinions)		0.00	0.33	0.42	0.25	
9	Says no	None					Contradiction:
	(doesn't feel						1 and 3
	it)		0.74	0.33	0.60	0.56	
10	Says yes	Little bit					Contradiction:
		both but					not polarised
		mostly					
		Zeno	0.48	0.33	0.10	0.30	
11	Says yes	None					No
							contradiction:
			0.77	1.00	0.64	0.80	polarised
12	Says no	Little bit					Contradiction:
		Zeno	0.74	0.00	0.78	0.51	1 and 3
13	Says yes in	More					No
	some way	Helena					contradiction:
			0.48	1.00	0.26	0.58	polarised

14	Says yes in	None					No
	own way						contradiction
			0.55	0.67	0.72	0.65	polarised
15	Says no (no	None					Contradiction
	fighting with						1, 2 and 3
	others but						
	strong						
	opinions)		0.65	1.00	0.64	0.76	
16	Hopes not	Little bit					Contradictio
	to be but	both but					1 and 2
	strong	mostly					
	opinion	Helena	0.52	0.67	0.22	0.47	
17	Says no	Mostly					Contradictio
		Helena	0.68	0.00	0.29	0.32	1
18	Says no and	Mostly					Contradictio
	hopes no	Helena	0.10	0.00	0.63	0.24	3
19	Says no	More Zeno					No
							contradictio
			0.45	0.00	0.50	0.32	not polarise
20	Thinks no	None					Contradictio
			0.61	0.00	0.54	0.38	1 and 3

Appendix F - Original Dutch phrasing of quotes used in analysis

Original text	Translation
"1 is meer echt een kleinere groep waar ik, ja, waar	"[Type] 1 is more like a small group where I – yeah,
dat ge nauwer mee elkaar bent." (R1)	where you are closer to one another" (R1)
"Die Laura daar kan ik mij totaal niet in vinden	"I totally cannot relate to Laura because I don't see
omdat ik niet echt mezelf dan zie als een inwoner	myself as an inhabitant of my neighbourhood. I'm
van de buurt. Ik ben ook niet echt beschermend	also not protective about the way I think nor am I
tegenover hoe dat ik denk en zo negatief tegenover	negative towards others ()" (R15).
buitenstaanders" (R15).	
"Dus in mijn leven denk ik dan ok, sociale cohesie is	"[] So, in my own life I think okay there really is
er echt wel, maar dan kijk je op de het nieuws en dan	social cohesion, but then you see the news and you
denk je van oei, het is totaal niet zo mooi als we het	think like oh, it's totally not as beautiful as we would
alleaal zouden hopen zeg maar. Dus ja, het is echt	all hope. So yeah, it's really ambiguous" (R5).
dubbel." (R5).	
"Polarisatie, ik probeer dat niet te zijn, dat is iets	"Polarisation, I try not to be polarised, it's something
moreels, ik weet gewoon dat dat niet juist is en ik	moral, I just know it's wrong and that I should have
weet dat ik minder vooroordelen moet hebben	less prejudices and the like, it's something which I
enzovoort, dat is iets voor mezelf dat ik niet goed	don't like for myself" (R14).
vind." (R14).	
"En dat valt mij enorm op. [stilte] dat is raar he. Ja, ik	"[] It really strikes me [silence]. It's weird right? I
heb geen duidelijk, ik heb geen eenduidig gevoel	don't have a clear – I don't have one coherent feeling
meer. En dat maakt ook dat ik soms, als ik daar te	anymore [about society]. And as a result, when I
hard op doordenk, wil ik soms, heb ik soms spijt dat	focus too much upon this, I sometimes regret having
ik kinderen heb gemaakt." (R7).	made children" (R7).

Appendix G - Supplemental material

In addition to the appendices provided here, supplemental material can be found in the digital appendix on this link:

https://vub-

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