

## **Live to Fight Another Day?**

### **Organizational Maintenance and Mortality Anxiety of Civil Society Organizations**

*Accepted for publication in Nonprofit and Voluntary Sector Quarterly*

**Frederik Heylen**

[frederik.heylen@uantwerpen.be](mailto:frederik.heylen@uantwerpen.be)

University of Antwerp  
Sint-Jacobsstraat 2-4  
2000 Antwerp  
Belgium

**Bert Fraussen**

[b.fraussen@fgga.leidenuniv.nl](mailto:b.fraussen@fgga.leidenuniv.nl)

Leiden University  
Turfmarkt 99  
2511 DP Den Haag  
The Netherlands

**Jan Beyers**

[jan.beyers@uantwerpen.be](mailto:jan.beyers@uantwerpen.be)

University of Antwerp  
Sint-Jacobsstraat 2-4  
2000 Antwerp  
Belgium

**Keywords:** civil society, survival, government funding, mortality anxiety, organizational maintenance

**Authors' Note:** An earlier version was presented at the 2016 ECPR General Conference in Prague. We would like to thank participants for their feedback and suggestions. We are also grateful to the three anonymous reviewers and the journal editor for their useful comments, which substantially improved our argument. The research reported in this paper was funded by grant from the European Research Council (ERC-2013-CoG 616702-iBias) and the Research Foundation-Flanders (G032814N).

**Abstract.** Communities of civil society organizations are characterized by substantial volatility, as new organizations are continuously established and old ones are regularly disbanded. This article aims to improve our understanding of the dynamic nature of civil society by focusing on a particular aspect of organizational maintenance, namely mortality anxiety. Building upon previous work that assesses actual and perceived survival chances of civil society organizations, we examine how inter-organizational competition, ties with public authorities and the internal institutionalization of civil society organizations shape how these groups assess their survival chances. Our results demonstrate that high levels of inter-organizational competition and a strong reliance on government funding significantly increase mortality anxiety. Furthermore, they highlight the importance of a professionalized and internally differentiated structure. We rely on survey data and focus on the case of Belgium, in this way providing a first assessment of mortality anxiety in a neo-corporatist political system.

## **Introduction**

A vibrant civil society is often considered a hallmark of a healthy democracy (Skocpol 2004; Putnam 2001; for a recent discussion see Schlozman et al. 2015). A dense and diverse network of civil society organizations provides an important complement to the representation of citizens through political parties and elections. These associations can function as “schools of democracy” and have the potential to establish crucial linkages between citizens and public authorities. However, such representative expectations are difficult to meet in times when civil society groups face serious challenges, including changing patterns of political engagement, inter-organizational competition and technological changes. The relations of civil society with public authorities have also become more complex. For instance, governments sometimes aim to steer the activities of civil society organizations through government funding, or adopt a critical attitude vis-à-vis their advocacy work (e.g. Arvidson et al. 2017; Brandsen et al. 2017).

As a result, civil society groups may find it hard to play their representative role, and become more preoccupied with organizational stability and survival (e.g. Mosley 2012). Previous work has demonstrated the volatile nature of organizational populations, caused by the “death” of existing organizations and the “birth” of new ones (Halpin & Jordan 2009; Lowery & Gray 2015). This article focusses on a related, yet distinct aspect of mortality, namely the fear of disbandment, or mortality anxiety. Gray and Lowery define mortality anxiety as “an assessment of the likelihood that an organization will soon face a crisis threatening its existence” (1997: 26). Why do some organizations fear for their continued existence? To what extent is this determined by competition amongst groups, the relations with public authorities, or organizational features such as internal differentiation and the relations with their membership?

This article builds upon previous research, in particular the work by Gray and Lowery on population ecology (1996), as well as studies on mortality anxiety in the United States and the

United Kingdom (Gray & Lowery 1997; Halpin & Thomas 2012). We aim to contribute to this literature in two ways. First, we analyze mortality anxiety in a neo-corporatist context. Sometimes it is presumed that competition amongst civil society organizations is less pronounced in these systems compared to more pluralist ones (Grote et al. 2008; Wilson 1983). However, not many scholars have systematically assessed this proposition (an exception is Fisker 2013). Second, in explaining mortality anxiety, scholars have paid less attention to the extent to which organizations are embedded within their broader environment (Halpin & Nownes 2011; Halpin & Jordan 2009). In this article, we therefore complement the population ecology approach with an assessment of how resource dependencies with public authorities (e.g. access to policy-makers and reliance on government funding) and the internal institutionalization of organizations (e.g. professionalization and member involvement) impacts mortality anxiety.

The next section relates the question of mortality anxiety to earlier work on the organizational maintenance of civil society organizations, and briefly reviews previous studies on this topic. In this section, we also develop our main hypotheses, building upon insights from population ecology, resource dependence theory and earlier work on the internal institutionalization of civil society groups. Next, we clarify our research design and data, which results from a survey among Belgian civil society groups. Subsequently, we present our results, relate our findings to previous research, and conclude by discussing some broader implications.

### **Organizational maintenance of civil society organizations**

We propose to get a more fine-grained understanding of mortality anxiety by approaching it from three different perspectives. These perspectives cover the most important elements of an organization's struggle for survival, which have also been addressed in previous work on mortality anxiety and organizational survival more generally.

First of all, the research on mortality anxiety draws heavily on population ecology (Gray and Lowery 1996). In these studies, competition between organizations is often considered a key factor for explaining how groups perceive their survival chances. Population ecologists also acknowledge that the relations between an organization and its broader environment will shape how the leadership perceives the chances of organizational survival. Nevertheless, due to a strong reliance on census data, most population studies have not systematically assessed the impact of variation in contextual embeddedness, such as the relations with public authorities (Hager et al. 2004; Halpin & Nownes 2011; Halpin & Jordan 2009).

In a second instance, we therefore build upon studies that have highlighted the importance of organizational ties to political institutions and other institutional actors to gain vital resources as well as legitimacy (Baum & Oliver 1991; Fraussen 2014; Vermeulen et al. 2016; Hager et al. 2016; Edwards & McCarthy 2004; Walker & McCarthy 2010). However, in line with Walker & McCarthy (2010), and drawing on resource dependence theory (Pfeffer & Salancik 1978), we point to the ambiguity of maintaining close ties to government, as these ties can have positive and negative consequences for the functioning of an organization.

Third, following recent work on mortality anxiety and the actual disbanding of organizations, we also consider the role of internal institutionalization. While we control for organizational features such as age and size, we emphasize specific factors related to the internal structure and functioning of organizations. We zoom in on elements highlighted in previous work on the internal institutionalization of civil society organizations, such as whether there is a clear internal division of labor and the level of membership involvement (e.g. Minkoff 1999; Staggenborg 1988). Our assumption here is that small and young organizations with limited resources might also be confident about their survival chances, if they have a professionalized structure in place as well as adequate processes for membership involvement. In the following paragraphs, we formulate our hypotheses, building on these three perspectives.

The population ecology literature strongly emphasizes competition as an important explanatory factor for understanding organizational maintenance (Lowery & Gray 1995). This competition usually takes place on two fronts: competition for resources and competition for policy influence. As regards to organizational maintenance, the fight for resources is particularly relevant. Previous work has assessed the impact of competition in different ways. Population ecologists usually assess competition in an indirect way by assessing the number of organizations, or population density, active within a certain domain. As argued by Gray and Lowery, if the number of groups in a domain increases, more groups have to compete for the same pool of resources, which increases the chances of mortality anxiety and ultimately leads to organizational deaths (1996: 27). Yet, despite its straightforward nature, density might be a rather crude proxy for competition. That is, high density could also suggest the opposite: precisely because competition is low, many groups are able to survive and flourish. We can also measure competition in a more direct way, by assessing an organization's experience of stress. In this view, it is the perception of a competitive environment that shapes organizational behavior. One way to measure this subjective experience is by surveying group officials and asking them directly to what extent they perceive competition (which we consider a proxy of what Gray and Lowery term 'direct competition'). The expectation is that the higher the level of direct competition, the more likely the leadership experience mortality anxiety.

*H1. Groups who are engaged in policy domains characterized by high levels of indirect competition are more likely to experience mortality anxiety.*

*H2. Groups who experience higher levels of direct competition are more likely to experience mortality anxiety.*

Our second set of expectations focuses on the ties of civil society organizations with political institutions. Indeed, one of the central assumptions of resource dependence theory is

that organizations can enhance their survival chances by developing ties to other organizations and institutions that provide critical resources (Pfeffer & Salancik 1978; see also Baum & Oliver 1991). Ties with policy-makers are especially important for civil society organizations, as they are often vital to secure critical resources. For instance, being a political insider – i.e. enjoying regular access – improves the legitimacy an organization enjoys (Halpin & Thomas 2012; Vermeulen et al. 2016; Baum & Oliver 1991). Additionally, the signal that political elites consider particular civil society organizations as relevant participants in the policy process might positively affect their ability to attract members and additional financial resources (Hager et al. 2004; Baum & Oliver 1991; Fraussen 2014; Walker & McCarthy 2010; Mosley 2012). We therefore expect that organizations with ties to policy-makers, or a high level of “insiderness” (Fraussen et al. 2015), will experience less mortality anxiety.

Another aspect of ties with public authorities involves the reliance of civil society organizations on government funding (Walker 1983; Mahoney & Beckstrand 2011; Neumayr et al. 2015; Verschuere & De Corte 2014). Government funding is often considered a double-edged sword, sometimes essential to organizational maintenance and development, but also possibly threatening to an organization’s autonomy. On the one hand, such support from public authorities may assist the establishment of groups, benefit their organizational development and enhance their legitimacy (Hager et al. 2004; Fraussen 2014). On the other hand, according to resource dependence theory, maintaining close ties to government can also increase mortality anxiety. For instance, recent work shows that a strong reliance on government funding cause mission drift, which implies that civil society groups are less attentive to the concerns of their members (Mosley 2012; Verschuere & De Corte 2014; Walker & McCarthy 2010; Kim & Ryzin 2014; Nikolova 2015). In the long run, these pressures increase organizational uncertainty and could lead to mortality anxiety and eventually disbandment (Anheier et al. 1997; Bloodgood et al. 2016; Chaves et al. 2004). Furthermore, organizations

who rely on government funding need to comply with specific requirements, which implies heavy administrative burdens, putting them on a competitive disadvantage compared to those organization who do not have to follow these rules (Walker & McCarthy 2010; Hager et al. 2004). Therefore, we expect that civil society organization for whom government funding represents a large share of their budget will experience higher levels of mortality anxiety.

*H3. Groups that are insiders to the political system are less likely to experience mortality anxiety.*

*H4. Groups that strongly rely on government funding are more likely to experience mortality anxiety.*

Third, previous research has shown how organizational features itself are vital to explain not only mortality anxiety, but also mortality itself. We therefore complement the two perspectives outlined above with a third set of expectations related to the internal processes of civil society organizations, building upon earlier studies of internal institutionalization (Jordan & Maloney 2007; Klüver & Saurugger 2013; Maier et al. 2016; McCarthy & Zald 1977; Minkoff 1999; Staggenborg 1988). We build upon classic work on political organizations that has emphasized the tension between developing the organization by establishing professional structures, and ensuring a continued membership involvement (Michels 1915; see also Schmitter & Streeck 1999; Piven & Cloward 1979; Rucht 1999).

Substantial empirical work has emphasized that organizations can establish organizational robustness by investing in professional staff and by developing adequate internal management structures (Hung & Ong 2012; Jordan & Maloney 1997; Maloney 2015; Marquez 2015; McCarthy & Zald 1973; Staggenborg 1988). One way of coping with this complexity involves hiring professionals with expertise in management, finance, communication or law. Another strategy is to develop a sophisticated internal division of labor and to establish specialized sub-



units enabling the organization to cope with specific problems. Such professionalization could give organizations a competitive edge, making them better prepared to tackle external challenges, and might consequently reduce mortality anxiety (Halpin & Thomas 2012).

Some scholars argue that because of trends towards professionalization, membership-driven organizations are in disarray (e.g. Skocpol 2004), while other researchers have contested or nuanced this claim (e.g. Minkoff et al. 2013; Walker & McCarthy 2010). It seems plausible that investment in a more elaborate organizational structure could result in fewer opportunities for membership participation. Indeed, although organizations investing in their maintenance may experience less mortality anxiety, scholars note this could be at the cost of their membership. In this regard, previous work on mortality anxiety (but also on mortality in general) has focused on membership size (Edwards & McCarthy 2004; Gray & Lowery 1997; Halpin & Nownes 2011; Vermeulen et al. 2016). The expectation is that organizations with more members, which may provide a reliable source of income, will experience less mortality anxiety. Although we assess the effects of membership size, we also analyze the role members play within civil society groups. Specifically, we look at actual membership involvement, more in particular the extent to which members are participating in the day-to-day operations of the organization. Our assumption is that involving members may build loyalty, substantial societal support, foster an allegiance and ensure a reliable stream of income. In addition, an active membership may enable experimentation, innovation and the circulation of ideas that keep the leadership fit and well informed about the concerns of their constituency. Therefore, our expectation is that groups fostering and building strong ties with their members will experience less mortality anxiety.

*H5: Groups that professionalize are less likely to experience mortality anxiety.*

*H6: Groups with many members are less likely to experience mortality anxiety.*

*H7. Groups that maintain strong ties with their members are less likely to experience mortality anxiety.*

## **Research design**

This article focuses on the Belgian case, a country that is typically described as “moderately neo-corporatist” (Fraussen et al. 2016). In that sense it is quite similar to countries like Germany and Denmark (Bloodgood et al. 2013; Lijphart & Crepaz 1991; Siaroff 1999). In this section, we present the research design, which involves two steps: a) a systematic mapping of the population of Belgian civil society groups and b) implementing a survey among these groups (for details see [www.cigsurvey.eu](http://www.cigsurvey.eu); Beyers et al. 2016).

Our mapping of Belgian civil society started from the Crossroads Bank for Enterprises (*Kruispuntbank voor Ondernemingen*) which is maintained by the Belgian federal government. This database registers all legal entities that engage in some socio-economic activity and contains more than two million organizational entities, including all established legal persons, non-profits and foundations (for details see Online Appendix). The register requires organizations to indicate which socio-economic activities they primarily engage in. To account for civil society organizations, a separate category (S94) was created, which refers to organizations that represent the interests of specific constituencies. This set includes a diversity of organizations that are active in a wide range of policy domains, such as groups that gather citizens and focus on public causes (e.g. the environment) and/or the provision of particular services (e.g. health), as well as associations that represent professionals within a particular sector, or companies active in a certain industry.

As the overall project primarily focuses on representation at the national and regional level, we decided to restrict our mapping to those organizations that are active at these levels of government and excluded civil society groups that are primarily focused on representation at

the local level (such as provinces and cities). Combined, this yielded a list of 1691 regional and nation-wide (or federal) organizations; of these 42 percent are nation-wide groups and 58 percent are regional (Flemish or Francophone) organizations. Having established this overview, we searched (via the website and in some instances short telephone calls) contact data for two (high-level) representatives of each organization (for instance: the director, president or secretary-general).

Although much evidence can be retrieved from public and online sources, detailed information on various important features of an organization (such as the size and composition of its budget, or advocacy strategies) is usually not publicly available. A survey is a useful and adequate tool to collect such information. Our survey focuses on topics such as advocacy strategies, organizational development and management, relations with members and other stakeholders, and the challenges organizations face. The web-survey was conducted between January and May of 2016. In the end we achieved a response rate of 43 percent (n=727 respondents who responded to more than half of the survey questions), which is relatively high compared to similar surveys (Marchetti 2015). Descriptive details on the independent and control variables are presented in Table 1.<sup>1</sup>

#### TABLE 1 HERE

The dependent variable for this article is mortality anxiety, which is the perception by the leadership that the very existence of their organization is challenged. More precisely, we put forward the following question, replicating the question that was first applied by Gray and Lowery (1997) and also used in a later study by Halpin and Thomas (2012):

*“Sometimes the continued existence of an organization is challenged, for instance by societal changes and challenges. Considering the next five years, what is your estimation of the likelihood that the continued existence of your organization will face a serious challenge?”*

The responses were coded on a five-point Likert-scale ranging from “very unlikely” to “very likely”. For the regression model (see below) we collapsed the two highest and the two lowest categories, resulting in a variable consisting of three categories (very unlikely/unlikely – neither likely or unlikely – likely/very likely).

Group density, our proxy for indirect competition, was measured based on the following question: “*Which (policy) areas is your organization involved in?*” In total, we identified 26 policy domains and for each domain we established the number of organizations that indicated to be active in these domains; this measure of group density is frequently used as an indicator of competition (Berkhout et al. 2015; Lowery & Gray 2015). As the distribution of this measure is right-skewed (Pearson’s Coefficient of Skewness  $\gamma_1=1.00$ ) we logarithmically transformed this measure. To measure the degree of direct competition we asked: “*In general, how much competition from like-minded organizations does your organization experience when attracting members, donations and subsidies?*” The answer possibilities included five categories on a Likert scale, ranging from “no competition” through “very strong competition”. A large number of groups claimed to face “no competition” (24 percent) or “low competition” (27 percent), while 28 percent reported “average competition”, 16 percent “strong competition” and five percent “very strong competition”.

The degree to which civil society organizations are political insiders was gauged with the following two questions. First, we asked, “*During the last 12 months, how often has your organization been involved in any of the following activities?*” The answer options included, (1) “*responded to open consultations*”, (2) “*served on advisory commissions or boards*” and (3) “*presented research results or technical information to policy-makers*”. The second question asked how often policy-makers initiated contact with their organization. For these four variables, respondents could choose between five categories.<sup>2</sup> As the polychoric ordinal  $\alpha$  indicates a high reliability score of .85 (Gadermann et al. 2012), we summed to four variables

to create a scale which ranges from 0 to 16. We have considerable variation in insiderness. For instance, 19 percent of our respondents were “never” contacted by policy-makers, 43 percent “once per year”, while 23 percent “once every three months” and 16 percent were “regularly” contacted (once per month or more).

To measure the dependency on funding from regional, national and European governments, we included a variable indicating which percentage of the budget originates from public funding. Also with respect to this variable, we observe substantial differences; 39 percent does not receive any public subsidies, 25 percent depends for less than half of their budget on government funding, and for 36 percent of the surveyed organizations public subsidies represent the majority of their financial resources.

As clarified above, we have three hypotheses referring to the internal institutionalization of civil society organizations. The first of these hypotheses (H5) assess the effect of professionalization, which we examine by taking into account the level of internal differentiation and the amount of staff an organization employs. A first feature involves the internal organizational differentiation and the extent to which organizations install specialized units. For this purpose, we constructed a scale based on the following question: “*Does your organizations have any of the following: (1) a president, (2) secretary general/managing director, (3) executive committee, (4) written rules/constitution, (5) committees competent for specific tasks, (6) general assembly, (7) judicial experts?*”. The different items are dichotomous (polychoric ordinal  $\alpha=.85$ ). In addition, to measure the number of staff the organization employs, we asked: “*How many paid staff (full time equivalent), does your organization employ?*” As the quantile-quantile plot reveals that the distribution of this measure is rightly skewed ( $\gamma_1=0.27$ ), the variable was logarithmically transformed.

Second, as for membership size, respondents were asked to indicate the size of the organizational membership (in one of eight categories).<sup>3</sup> However, one cannot simply compare

the individual membership of labor unions with the company membership of business associations. Therefore, a categorical indicator was created that classifies membership size for two different membership types, namely individuals, on the one hand, and, organizations (such as companies, institutions, and other civil society organizations), on the other hand. Specifically, there are two categorical variables with three sets of equally sized categories, distinguishing groups with a low, medium and high amount of members, taking into account the distribution between these two membership types (see Fraussen and Beyers 2016 for a similar approach).

Third, to measure membership involvement, we constructed a scale based on the following question: *“How important are your members for the following activities?”* These activities included: (1) *“helping to influence public policy”*, (2) *“providing ideas about your organization’s campaigning strategies”*, (3) *“identifying problems or providing ideas about your organization’s activities”*, and (4) *“providing evidence of support from affected members or concerned citizens”*, (5) *“running local groups or branches”*, and (6) *“generating income for the organization”*. The responses were coded on a five-point Likert-scale, which were added to form a scale (polychoric ordinal  $\alpha=.71$ ).<sup>4</sup>

We add three control variables, organizational age, region and organization type.<sup>5</sup> As regards age, studies have demonstrated a “liability of newness”, as younger organizations tend to die at a higher rate than older ones (Hung & Ong 2012; Vermeulen et al. 2016). Younger groups may enjoy less extensive networks with other organizations and public authorities, which makes them more vulnerable to environmental shocks, such as the loss of government funding or a decline in membership subscriptions. The distribution of this variable is left skewed ( $\gamma_1=-0.73$ ), we therefore logarithmically transformed this variable.

Next, we control for regional differences within Belgium. Belgian civil society consists of groups that are organized at both the federal and the regional level (more precisely in two

linguistic communities; Flanders and Francophone Belgium). Therefore, it is plausible to presume that a specific socio-economic context in a region might affect the mortality anxiety of groups based in that region. To assess regional differences we used a survey question, which gauges the origin of the organizational members. Based on this we make a distinction between Flemish, Francophone and nation-wide organizations.

Finally, we control for organization type, distinguishing groups that represent businesses or professions from those that claim to represent citizens, or advocacy for public interests. Generally, business groups experience less severe collective action problems as the size of the potential membership is lower and their potential members exhibit rather specific interests, making it easier to supply selective benefits (Dür & Mateo 2016; Olson 1965). Therefore, we expect that business groups face lower level of mortality anxiety compared to non-business groups (Halpin & Thomas 2012). In addition, we expect that different types of citizen groups will vary in their level of mortality anxiety. Some citizen groups adopt a more outspoken advocacy role (for instance, defending the environment or raising public awareness for rare diseases). Other citizen groups organizations, which we label as service-oriented groups, fulfil social tasks such as conducting development projects, supporting volunteering work, or organizing health care. We expect the latter segment to experience more mortality anxiety, as they are often involved in short-term projects and their sources of income are frequently more volatile, especially in times of austerity. To distinguish between organization types, coders were asked to classify groups, based on the organization's website, in a category typology (see Online Appendix; see Fraussen and Halpin 2016 for a similar distinction between citizen groups).

## Results

Figure 1 gives an overview of the dependent variable. Whereas almost half (47 percent) of the surveyed groups considers the discontinued existence of their organization unlikely, 24 percent indicated that they experience considerable levels of mortality anxiety, whereas another 29 percent of the groups took a position in the middle. Given the established nature of many sampled organizations (they all have a legal entity and operate at the national or regional level), it is puzzling to observe that almost 1 out of 4 groups experiences considerable organizational stress. Many organizations in the sample have existed for quite some time (mean age is 41), have considerable resources (the modal budget ranges between 100,000 and 500,000 Euros) and enjoy institutionalized access on a regular basis (52 percent are consulted once every three months or more by policy-makers). Furthermore, many of these associations receive some government funding (25 percent get up to half of their budget from the government and 36 percent more than half), whereas several of them have a substantial amount of members (the modal membership is situated between 100 and 1000 members). Nonetheless, several of these groups experience high levels of mortality anxiety.

FIGURE 1 HERE

How do these results compare to earlier research on mortality anxiety? Previous studies have focused on polities that are traditionally seen as more pluralist, such as the United States (Gray & Lowery 1997) and the United Kingdom (Halpin & Thomas 2012). Often, group competition is assumed to be rather strong in these pluralist systems, while associational life is seen as more stable and predictable in neo-corporatist political systems (Grote et al. 2008; Schmitter 1974). Yet, if we consider the results of Halpin and Thomas' (2012) study, we see that in the case of Scotland 17 percent of the groups experienced a serious challenge to their survival (compared to 24 percent in Belgium), while 54 percent perceived such a challenge as not very likely (compared to 46 percent of the Belgian groups). For Lowery and Gray (1997),



who assessed mortality anxiety among groups in the United States, we observe that respectively 14 and 17 percent considered such an existential crisis “very likely” or “likely”, while 69 percent did not report any mortality anxiety. Compared to these results, mortality anxiety is rather high in Belgium, contradicting the expectation the neo-corporatist systems would be characterized by a more stable civil society.

#### TABLE 2 HERE

Table 2 presents the results of an ordinal logistic regression (proportional odds model) in which we analyze the likelihood that civil society organizations consider the extinction of their organization as “very likely” or “likely” (compared to “unlikely”) within the next five years.<sup>6</sup> Given that the answer categories are ordered, an ordinal logistic regression is more appropriate compared to a multinomial logistic regression (Hosmer & Lemeshow 2000: 288). Before looking at our specific hypotheses, we briefly present the effects of the control variables. It is noteworthy to mention that age does not affect mortality anxiety; nor do we find an effect for regional differences. While the liability of newness is often linked to organizational death and Gray and Lowery also confirmed this expectation for mortality anxiety, our results are similar to those of Halpin and Thomas (2012), who demonstrate that age is not an important factor. As regards group type, we find that, compared to service-oriented organizations, citizen groups who focus more on policy advocacy are significantly less likely to experience higher levels of mortality anxiety. As explained above, one reason for this may be that service-oriented organizations are often involved in short-term projects and that their sources of income might therefore be more volatile, even more so in times of austerity.

With respect to competition (Hypotheses 1 and 2), the model demonstrates that civil society organizations that are confronted with high levels of mobilization by other groups in their area of interest are not more likely to show mortality anxiety. Note that the correlation between this measure of indirect competition based on density and our indicator of direct

competition, is significant yet rather low ( $r=0.09$ ,  $p<.0171$ ). This means that what population ecologists refer to as indirect competition, does not affect mortality anxiety. Yet, the measure of direct competition strongly predicts mortality anxiety, meaning that high levels of perceived competition correspond with increased fear of organizational disbandment. When going from 1 (no competition) to 5 (very strong competition), the odds of reporting mortality anxiety are 15 times greater, given that all other variables held constant (see Figure 2).<sup>7</sup>

#### FIGURE 2 HERE

These results on direct competition demonstrate that mortality anxiety is strongly shaped by how the leadership experiences the broader environment. One key environmental factor for civil society groups are public authorities. To assess the potential effects of ties with public authorities, we focus on the organization's insiderness and its reliance on government funding (Hypothesis 3 and 4). Civil society groups who develop close relations with policy-makers, and thus are insiders to the political system, do not show substantially lower levels of mortality anxiety, meaning that we have to reject Hypothesis 3. In contrast, a group's financial dependence on government support has clear implications for mortality anxiety (Hypothesis 4). As Figure 3 shows, at very high levels of government funding (>70 percent of the budget), the expected probability of facing mortality anxiety is higher than .30. Groups who do not rely on government funding, or for whom this source of income represents only a small portion of their budget, are significantly less likely to experience mortality anxiety. This clearly indicates that the leadership perceives organizational survival as more precarious when the dependence on government funding is high.

#### FIGURE 3 HERE

Finally, we address the effects of professionalization, membership size, and member involvement (Hypothesis 5, 6 and 7). To begin, organizations that have adopted a differentiated structure – our first indicator to test Hypothesis 5 – show lower levels of anxiety. Yet,

employing more staff – our second indicator to test Hypothesis 5 – does not significantly decrease anxiety. Hence, what seems to matter more for managing mortality anxiety is not so much the absolute number of staff but rather the internal allocation of the available human resources. Next, we observe relevant effects of membership size. In particular, civil society groups with more individual members are less likely to demonstrate mortality anxiety compared to groups that have fewer or no members. While the coefficients indicate a similar effect for civil society groups with organizational members, the differences are not statistically significant. Finally, the membership involvement index does not generate a significant effect, which in itself is a very relevant finding. Although a larger membership seems to decrease mortality anxiety, actively mobilizing, involving, supporting or informing a constituency, appears to have no direct impact on mortality anxiety.

We also examined whether the effect of membership involvement on mortality anxiety varies across different levels of organizational differentiation (Interaction Model in Table 2). Do groups that intensely involve their members need a more differentiated structure in order to adequately manage the organization? If so, groups with high levels of membership involvement that lack a robust organization will demonstrate higher levels of mortality anxiety. Indeed, our analysis indicates that the effect of membership involvement depends on the extent to which a group has adopted a differentiated organizational structure. In other words, organizations that involve their members more, experience, higher levels of mortality anxiety when they do not adopt a differentiated structure. This impact of membership involvement decreases, meaning it generates lower levels of mortality anxiety, if organizations adopt a more differentiated structure. The effect of membership involvement flattens out when organizational differentiation is maximized. This is an interesting observation as it demonstrates that organizations may, to some extent, manage their vulnerability by crafting effective organizational structures. While high levels of membership involvement should not

be considered detrimental to organizational survival, it may require an adjustment of internal structures and processes.

FIGURE 4 HERE

## **Conclusion**

This article started from the observation that there is considerable volatility in populations of civil society groups, and addressed the question why some groups experience high levels of mortality anxiety, or fear for their continued existence. Understanding mortality anxiety is essential for understanding the dynamics of interest representation. Some work has demonstrated that stress related to organizational maintenance is crucial for explaining the dynamics of organizational populations and advocacy strategies (Dür & Mateo 2013; Hanegraaff et al. 2016). That is, if civil society groups face higher levels of mortality anxiety, indicating their probable disbandment, this may have implications for the balanced or biased nature of interest representation. Furthermore, groups that face high levels of mortality anxiety – and thus fear their continued existence – may adopt less risky advocacy strategies and might spend more energy on organizational matters (such as searching financial resources or prioritizing efforts to maintain their membership), instead of representing the interests of their members in the political arena.

We approached this question from three perspectives, inspired by population ecology, resource dependence theory and previous work on the internal institutionalization of civil society organizations.

Three results stand out in particular. First, somewhat surprisingly, we found that mortality anxiety among civil society organizations is rather high in Belgium, compared to earlier observations made in pluralist countries (Gray & Lowery 1997; Halpin & Thomas 2012). This finding is at odds with the often held – but rarely tested – presumption that inter-organizational competition between civil society groups is lower in neo-corporatist political systems, as

government interventions in those countries would lead to a more stable system of interest representation. Our results do not fit well with these expectations, and should urge scholars to reconsider the impact of system-level differences on the organizational maintenance of civil society organizations. In that regard, a more direct comparison of mortality anxiety across countries and policy domains would be a promising avenue to take this research agenda forward.

Second, our analysis confirmed that relations with public authorities, more specifically government funding, play an important, albeit ambiguous, role in the well-being of organizations. Although some research has argued that government funding might enhance the survival chances of civil society organizations (Brown & Troutt 2004; Hager et al. 2014), other work has underlined the perils of financial dependence on public authorities (e.g. Rosenbaum 1981; Froelich 1999). The latter findings are in line with our results, as we find that groups that depend strongly on government funding demonstrate higher levels of mortality anxiety. This insecurity is probably even higher in times of austerity, when government funding is more volatile and might be decreased substantially. Another risk connected to government funding is that it may displace private funding from the membership (e.g. the crowding-out hypothesis, see Kim & Ryzin 2014; Nikolova 2015; Rosenbaum 1981).

Finally, as regards the internal institutionalization, we find that actively involving members does not decrease mortality anxiety. So echoing the seminal work of Michels (1915) and many others, there could be a tension between internal institutionalization and maintaining a representative nature. However, our findings suggest that a differentiated, more professionalized structure may facilitate membership involvement while also having positive implications for the perceived chances of survival. This is ultimately good news for the representative capacities of civil society organizations.

Our analysis drew theoretical and empirical inspiration from related research on the survival, maintenance and disbanding of civil society organizations. Although one has to bear in mind possible differences between mortality anxiety and actual organizational disbandment (Hager et al. 2014; Hung & Ong 2012; Vermeulen et al. 2016; Lecy & Searing 2015), we believe that analyzing mortality anxiety enables a more fine-grained understanding of organizational stress, as it identifies factors that might not show up on a post-mortem examination. For instance, while research shows that larger and older organizations are expected to be less subject to disbandment, our analysis suggests that these factors matter less when organizational leaders themselves assess their survival chances (even though we find significant effects for membership size). In our view, the relation between actual disbanding and mortality anxiety could go in two directions. On the one hand, anxiety could lead to an increased propensity of organizational failure implying a positive relation between anxiety and actual disbandment. However, on the other hand, anxiety could elicit either a ‘fight’ response or a more cautious approach, which could actually prevent disbandment and prolong the life of the organization. To increase our knowledge of the link between mortality anxiety and organizational maintenance, future work would benefit from examining these organizational responses and their relation with survival more closely.

## Online Appendix

### NACE classification

Most European countries have a similar register and use a related classification (following the so-called NACE classification system, based on a standardization used by EUROSTAT and the OECD). NACE is the abbreviation of the French “Nomenclature statistique des activités économiques dans la Communauté européenne”. This European industry classification system consists of a 4 digit code and is used in most national statistical data-systems.

The definition of S94 reads as follows: “This division includes activities of organizations representing interests of special groups or promoting ideas to the general public. These organizations usually have a constituency of members, but their activities may involve and benefit non-members as well. The primary breakdown of this division is determined by the purpose that these organizations serve, namely interests of employers, self-employed individuals and the scientific community (group 94.1), interests of employees (group 94.2) or promotion of religious, political, cultural, educational or recreational ideas and activities (group 94.9).”

#### Coding organization types

Organization type	Description
Service organization	Associations with emphasis on service provision (e.g. development organizations and self-help groups)
Association of Professionals	Associations of professionals or a certain trade (e.g. doctors, lawyers, and bakers)
Citizen/cause groups	Association of citizens with emphasis on political action (also including trade unions)
Association of businesses	Associations of businesses
Leisure organization	Associations with emphasis on supporting members leisure activities (e.g. sport).
Rest	Organizations not fitting in the above categories (e.g. associations of institutions, associations of public authorities, networks and platforms)

## Notes

<sup>1</sup> There is a risk of common method bias (CMB) when measuring dependent and independent variables with the same instrument. Yet, as our aim was to examine mortality anxiety in a systematic fashion, a survey instrument seemed the most suitable approach, especially because it is hard or even impossible to obtain systematic evidence on several of our key variables via another method (especially since there is no Encyclopaedia or register of civil society organizations in Belgium). We tested for common method bias (CMB) by running an un-rotated exploratory factor analysis with all variables (Harman's single-factor test, see Podsakoff et al. 2003). The results (which can be obtained by contacting the authors) show that no dominant factor emerges, as the proportion of variance explained by first factor is only 11 percent. We can therefore safely assume that CMB is not a big issue in our dataset.

<sup>2</sup> Ranging from 0="never", 1="at least once during the past year", 2="at least once every three months", 3="at least once a month", and 4="at least once a week".

<sup>3</sup> Ranging from "none", "up to 10", "11-100", "101-1000", "1001-50,000", "50,001-100,000", "10,0001-1 million" to "more than a million".

<sup>4</sup> Ranging from 0="unimportant", 1="not so important", 2="neither important", 3="important", 4="very important", and 5="not applicable" (this latter value was considered as equivalent to "unimportant" and its value was truncated to 0).

<sup>5</sup> We tested separate models in which we controlled for resources, more precisely the annual budget during the year before we implemented the survey (2015). The results are similar to what we report here. Yet, we decided not to include this control variable in the final model as resources and staff size are strongly correlated ( $r=.57$ ;  $p<0.001$ ) which caused problems of collinearity.

<sup>6</sup> A model with age as a quadratic term did not generate a significant impact (Hung & Ong 2012; Vermeulen et al. 2016).

<sup>7</sup> Comparing with a more parsimonious model, namely the full model without specific competition, we observe a much lower statistical fit, which confirms that this variable makes a substantial contribution to a better model fit ( $\Delta AIC=46.5$ ).



## References

- Anheier, H.K., Toepler, S., & Sokolowski, S.W. (1997) The implications of government funding for non-profit organizations: three propositions. *International Journal of Public Sector Management*, 10(3), 190-213.
- Arvidson, M., Johansson, H., & Scaramuzzino, R. (2017). Advocacy Compromised: How Financial, Organizational and Institutional Factors Shape Advocacy Strategies of Civil Society Organizations. *VOLUNTAS: International Journal of Voluntary and Nonprofit Organizations*. doi:10.1007/s1126.
- Baum, J.A.C., & Oliver, C. (1991). Institutional Linkages and Organizational Mortality. *Administrative Science Quarterly*, 36(2), 187–218.
- Berkhout, J., Carroll, B. J., Braun, C., Chalmers, A.W., Destrooper, T., Lowery, D., Otjes, S., & Rasmussen, A. (2015). Interest organizations across economic sectors: explaining interest group density in the European Union. *Journal of European Public Policy*, 22(4), 462-480.
- Beyers, J., Bernhagen, P., Borang, F., Braun, C., Fink-Hafner, D., Heylen, F., Maloney, W., Naurin, D., & Pakull, D. (2016). *Comparative Interest Group Survey Questionnaire* (Edition: January 2016). University of Antwerp.
- Bloodgood, E.A., & Tremblay-Boire, J., & Prakash, A. (2013). National styles of NGO regulation. *Nonprofit and Voluntary Sector Quarterly*, 14(1), 1-22.
- Brandsen, T., Trommel, W., & Verschuere, B. (2017). The state and the reconstruction of civil society. *International Review of Administrative Sciences*, 83(4), 676-693.
- Brown, L.K., & Troutt, E. (2004). Funding Relations between Nonprofits and Government: A Positive Example. *Nonprofit and Voluntary Sector Quarterly*, 33(1), 5–27.
- Chaves, M., Stephens, L., & Galaskiewicz, J. (2004). Does Government Funding Suppress Nonprofits Political Activity? *American Sociological Review*, 69(2), 292–316.

- Dür, A., & Mateo, G. (2016). *Insiders versus Outsiders. Interest Group Politics in Multilevel Europe*. Oxford: Oxford University Press.
- Edwards, B., & McCarthy, J.D. (2004). Strategy Matters: The Contingent Value of Social Capital in the Survival of Local Social Movement Organizations. *Social Forces*, 83(2), 621–651.
- Fisker, H.M. (2013). Density dependence in corporative systems: Development of the population of Danish patient groups (1901–2011). *Interest Groups & Advocacy*, 2(2), 119-138.
- Fraussen, B. (2014). The Visible Hand of the State: On the Organizational Development of Interest Groups. *Public Administration*, 92(2): 406-421.
- Fraussen, B., Beyers, J., & Donas, T. (2015). The Expanding Core and Varying Degrees of Insiderness: Institutionalised Interest Group Access to Advisory Councils. *Political Studies*, 63(3), 569-588.
- Fraussen, B., & Beyers, J. (2016). Who's in and who's out?: Explaining access to policymakers in Belgium. *Acta Politica*, 51(2), 214-236.
- Fraussen, B., & Halpin, D. (2016). Assessing the Composition and Diversity of the Australian Interest Group System. *Australian Journal of Public Administration*, 75(4), 476-491.
- Froelich, K.A. (1999). Diversification of Revenue Strategies: Evolving Resource Dependence in Nonprofit Organizations. *Nonprofit and Voluntary Sector Quarterly*, 28(3), 246–268.
- Gadermann, A.M., Guhn, M., & Zumbo, B.D. (2012). Estimating ordinal reliability for Likert-type and ordinal item response data: A conceptual, empirical, and practical guide. *Practical Assessment, Research & Evaluation*, 17(3), 1-13.
- Gray, V., & Lowery, D. (1996). Environmental limits on the diversity of state interest organization systems: A population ecology interpretation. *Political Research Quarterly*, 49(1), 103-118.

- Gray, V., & Lowery, D. (1996). *The population ecology of interest representation : lobbying communities in the American states*. Ann Arbor: The University of Michigan Press.
- Gray, V., & Lowery, D. (1997). Life in a niche: Mortality anxiety among organized interests in the American states. *Political Research Quarterly*, 50(1), 25-47.
- Grote, J.R., Lang, A., & Schneider, V. (2008). *Organized Business Interests in Changing Environments. The Complexity of Adaptation*. New York: Palgrave.
- Hager, M.A., Galaskiewicz, J., & Larson, J.A. (2004). Structural embeddedness and the liability of newness among nonprofit organizations. *Public Management Review*, 6(2), 159–188.
- Halpin, D.R., & Thomas III, H.F. (2012). Interest group survival: Explaining sources of mortality anxiety. *Interest Groups & Advocacy*, 1(2), 215-238.
- Halpin, D.R., & Jordan, G. (2009). Interpreting environments: Interest group response to population ecology pressures. *British Journal of Political Science*, 39(2), 243-265.
- Halpin, D., & Nownes, A. (2011). Reappraising the Survival Question: Why We Should Focus on Interest Group “Organizational Form” and “Careers”, in Cigler A. and Loomis B. (eds.), *Interest Group Politics*, Washington, DC: Congressional Quarterly Press, 52-73.
- Hanegraaff, M., Beyers, J., & De Brucyker, I. (2016). Balancing inside and outside lobbying: The political strategies of lobbyists at global diplomatic conferences. *European Journal of Political Research*, 55(3): 568-588.
- Hosmer, D., & Lemeshow, S. (2000). *Applied Logistic Regression*. New York: John Wiley & Sons, Inc.
- Hung, C.R., & Ong, P. (2012). Sustainability of Asian-American Nonprofit Organizations in U.S. Metropolitan Areas. *Nonprofit and Voluntary Sector Quarterly*, 41(6), 1136–1152.
- Jordan, G., & Maloney, W. (2007). *Democracy and interest groups: enhancing participation?* New York: Palgrave Macmillan.

- Kim, M., & Van Ryzin, G.G. (2014). Impact of Government Funding on Donations to Arts Organizations. *Nonprofit and Voluntary Sector Quarterly*, 43(5), 910–925.
- Klüver, H., & Saurugger, S. (2013). Opening the black box: The professionalization of interest groups in the European Union. *Interest Groups & Advocacy*, 2(2), 185-205.
- Lecy, J.D., & Searing, E.A.M. (2015). Anatomy of the Nonprofit Starvation Cycle. *Nonprofit and Voluntary Sector Quarterly*, 44(3), 539–563.
- Lijphart, A., & Crepaz, M.M.L. (1991). Corporatism and consensus democracy in eighteen countries: Conceptual and empirical linkages. *British Journal of Political Science*, 21(2), 235-246.
- Lowery, D., & Gray, V. (1995). The population ecology of Gucci Gulch, or the natural regulation of interest group numbers in the American states. *American Journal of Political Science*, 39(1), 1-29.
- Lowery, D., & Gray, V. (2015). An introduction to the population ecology approach. In Lowery, D. & Gray, V. (eds.), *The Organization Ecology of Interest Communities*, New York: Palgrave Macmillan, 1-15.
- Mahoney, C. & Beckstrand, M. (2011). Following the Money: European Union Funding of Civil Society Organizations. *Journal of Common Market Studies*, 49(6), 1339-1361.
- Maier, F., Meyer, M., & Steinbereithner, M. (2016). Nonprofit Organizations Becoming Business-Like. *Nonprofit and Voluntary Sector Quarterly*, 45(1), 64–86.
- Maloney, W. (2015). Organizational Populations: Professionalization, Maintenance and Democratic Delivery. In D. Halpin, D. Lowery, & V. Gray (Eds.), *The organization ecology of interest communities. Assessment and Agenda*, Palgrave Macmillan, 99-116.
- Marchetti, K. (2015). The use of surveys in interest group research. *Interest Groups and Advocacy*, 4(3), 272-282.

- Marquez, L.M.M. (2015). The Relevance of Organizational Structure to NGOs' Approaches to the Policy Process. *VOLUNTAS: International Journal of Voluntary and Nonprofit Organizations*, 27(1), 465-486
- McCarthy, J.D., & Zald, M.N. (1977). Resource Mobilization and Social Movements: A Partial Theory. *American Journal of Sociology*, 82(6), 1212–1241.
- Michels, R. (1915). *Political Parties: A Sociological Study of the Oligarchical Tendencies of Modern Democracy*. Illinois: The Free Press.
- Minkoff, D. (1999). Bending with the Wind : Strategic Change and Adaptation by Women's and Racial Minority Organizations. *American Journal of Sociology*, 104(6), 1666–1703.
- Minkoff, D., Aisenbrey, S., Agnone, J., & College, B. (2013). Organizational Diversity in the U.S. *Social Problems*, 55(4), 525–548.
- Mosley, J.E. (2012). Keeping the Lights On: How Government Funding Concerns Drive the Advocacy Agendas of Nonprofit Homeless Service Providers. *Journal of Public Administration Research and Theory*, 22(4), 841-866.
- Neumayr, M., Schneider, U., & Meyer, M. (2015). Public Funding and Its Impact on Nonprofit Advocacy. *Nonprofit and Voluntary Sector Quarterly*, 44(2): 297-318.
- Nikolova, M. (2015). Government Funding of Private Voluntary Organizations. *Nonprofit and Voluntary Sector Quarterly*, 44(3), 487–509.
- Olson, M. (1965). *The Logic of Collective Action: Public Goods and the Theory of Groups*. Cambridge: Harvard University Press.
- Pfeffer, J., & Salancik, G.R. (1978). *The external control of organizations: A resource dependence approach*. New York: Harper and Row Publishers.
- Piven, F.F., & Cloward, R. A. (1977). *Poor People's Movements. Why they succeed, how they fail*. New York: Vintage Books.

- Podsakoff, P. M., MacKenzie, S. B., Lee, J.-Y., & Podsakoff, N. P. (2003). Common method biases in behavioral research: a critical review of the literature and recommended remedies. *The Journal of Applied Psychology*, 88(5), 879–903.
- Putnam, R.D. (2001). *Bowling Alone : The Collapse and Revival of American Community*. New York: Simon and Schuster.
- Rosenbaum, N. (1981). Government funding and the voluntary sector: impacts and options. *Nonprofit and Voluntary Sector Quarterly*, 10(1), 82–89.
- Rucht, D. (1999). Linking Organization and Mobilization: Michels’ S Iron Law of Oligarchy Reconsidered. *Mobilization: An International Journal*, 4(2), 151–169.
- Schlozman, K.L., Jones, P.E., You, H.Y., Burch, T., Verba, S., & Brady, H.E. (2015). Organizations and the Democratic Representation of Interests: What Does It Mean When Those Organizations Have No Members? *Perspectives on Politics*, 13(4), 1017-1029.
- Schmitter, P.C., & Streeck, W. (1999). The organization of business interests: Studying the associative action of business in advanced industrial societies. *MPIfG Discussion Paper*, 99(1), 1–94.
- Schmitter, P.C. (1974). Still the century of corporatism? *The Review of Politics*, 36(1), 85-131.
- Siaroff, A. (1999). Corporatism in 24 industrial democracies: Meaning and measurement. *European Journal of Political Research*, 36(2), 175-205.
- Skocpol, T. (2004). Voice and Inequality: The Transformation of American Civic Democracy. *Perspectives on Politics*, 2(1), 1–18.
- Staggenborg, S. (1988). The Consequences of Professionalization and Formalization in the Pro-Choice Movement. *American Sociological Review*, 53(4), 585–605.
- Vermeulen, F., Minkoff, D.C., & van der Meer, T. (2016). The Local Embedding of Community-Based Organizations. *Nonprofit and Voluntary Sector Quarterly*, 45(1), 23–44.

- Verschuere, B., & De Corte, J. (2014). The Impact of Public Resource Dependence on the Autonomy of NPOs in Their Strategic Decision Making. *Nonprofit and Voluntary Sector Quarterly*, 43(2), 293-313.
- Walker, E.T., & McCarthy, J.D. (2010). Legitimacy, Strategy, and Resources in the Survival of Community-Based Organizations. *Social Problems*, 57(3), 315–340.
- Walker, J.L. (1983). The origins and maintenance of interest groups in America. *American Political Science Review*, 77(2), 390-406.
- Wilson, F. (1983). Interest groups and politics in Western Europe. *Comparative Politics*, 16(1), 105-123.

### **Biographical paragraphs**

**Frederik Heylen** is a PhD. candidate at the University of Antwerp. His dissertation deals with how interest organizations institutionalize in different socio-political contexts. The main idea is that institutionalization encompasses more than just organizational development, as it also denotes how organizations become more embedded in society and governed by rules and procedures.

**Bert Fraussen** is Assistant Professor at the Faculty of Governance and Global Affairs, Leiden University. His research agenda integrates the organizational design and development of political organizations, notably interest groups, and their involvement in public policy. His work has been published in journals such as *European Journal of Political Research*, *Governance*, and *Public Administration*.

**Jan Beyers** is Francqui Research Professor and Professor of Political Science at the University of Antwerp. Much of his research analyzes how interest organizations adapt to multi-level political opportunities in terms of their internal organization, political strategies as well as their programmatic policy agenda. My research agenda covers topics such as multi-level venue-shopping, EU-level territorial lobbying as well as the population ecology of group politics. Details about his projects and publications can be found on his website [www.janbeyers.eu](http://www.janbeyers.eu).

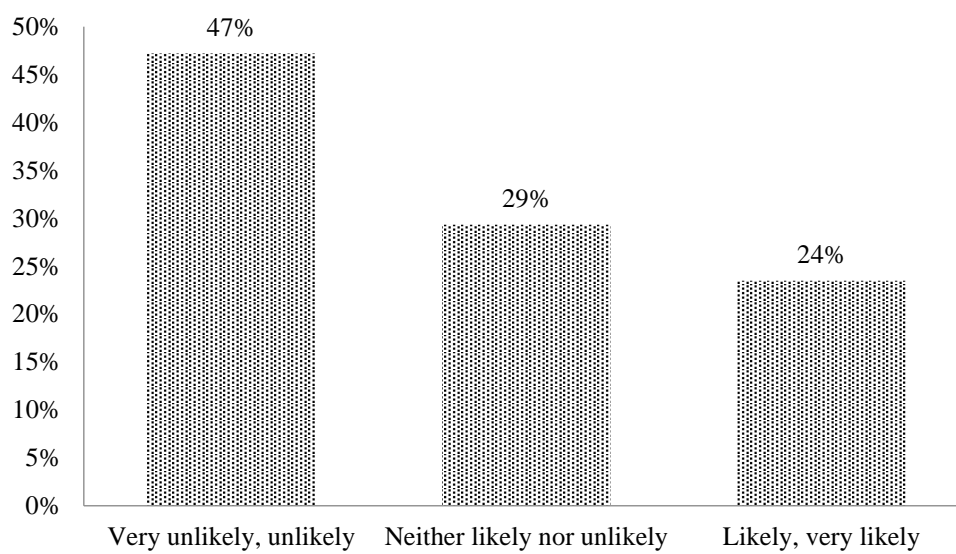


## TABLES AND FIGURES

**Table 1. Distribution independent and control variables**

	Variables	Obs.	Mean	SD	Freq.	Min	Max
<i>Independent</i>	Indirect competition (log)	752	5.53	1.01	-	2.89	7.65
	Direct competition (1=no, ref.)	858	-	-	202	1 (ref)	5
	(2=little)	-	-	-	233	-	-
	(3=moderate)	-	-	-	240	-	-
	(4=strong)	-	-	-	138	-	-
	(5=very strong)	-	-	-	45	-	-
	Insiderness (index)	629	5.2	3.4	-	0	16
	Government subsidies (%)	779	36.1	37.9	-	0	100
	Internal differentiation (index)	836	5.25	1.46	-	0	7
	Number of staff (log)	770	8.2	8.2	-	-18.4	8.7
	Membership involvement (index)	744	20.9	5.5	-	0	30
	# individual members (1=<Median, ref.)	799	-	-	385	0 (ref)	3
	(2=Median)	-	-	-	190	-	-
	(3=>Median)	-	-	-	224	-	-
	# organizational members (1=<Median, ref.)	799	-	-	298	-	-
	(2=Median)	-	-	-	254	-	-
	(3=>Median)	-	-	-	247	-	-
<i>Controls</i>	Age (log)	944	3.76	0.89	-	0	5.5
	Members origin (1=federal, ref.)	788	-	-	332	-	-
	(2=Flemish)	-	-	-	279	-	-
	(3=Walloon)	-	-	-	177	-	-
	Type (1=Service group, ref.)	1021	-	-	195	-	-
	(2=Professionals)	-	-	-	199	-	-
	(3=Citizen group)	-	-	-	179	-	-
	(4=Business)	-	-	-	235	-	-
	(5=Leisure)	-	-	-	145	-	-
	(6=Rest)	-	-	-	68	-	-

**Figure 1. Mortality anxiety (n=840, percentages)**



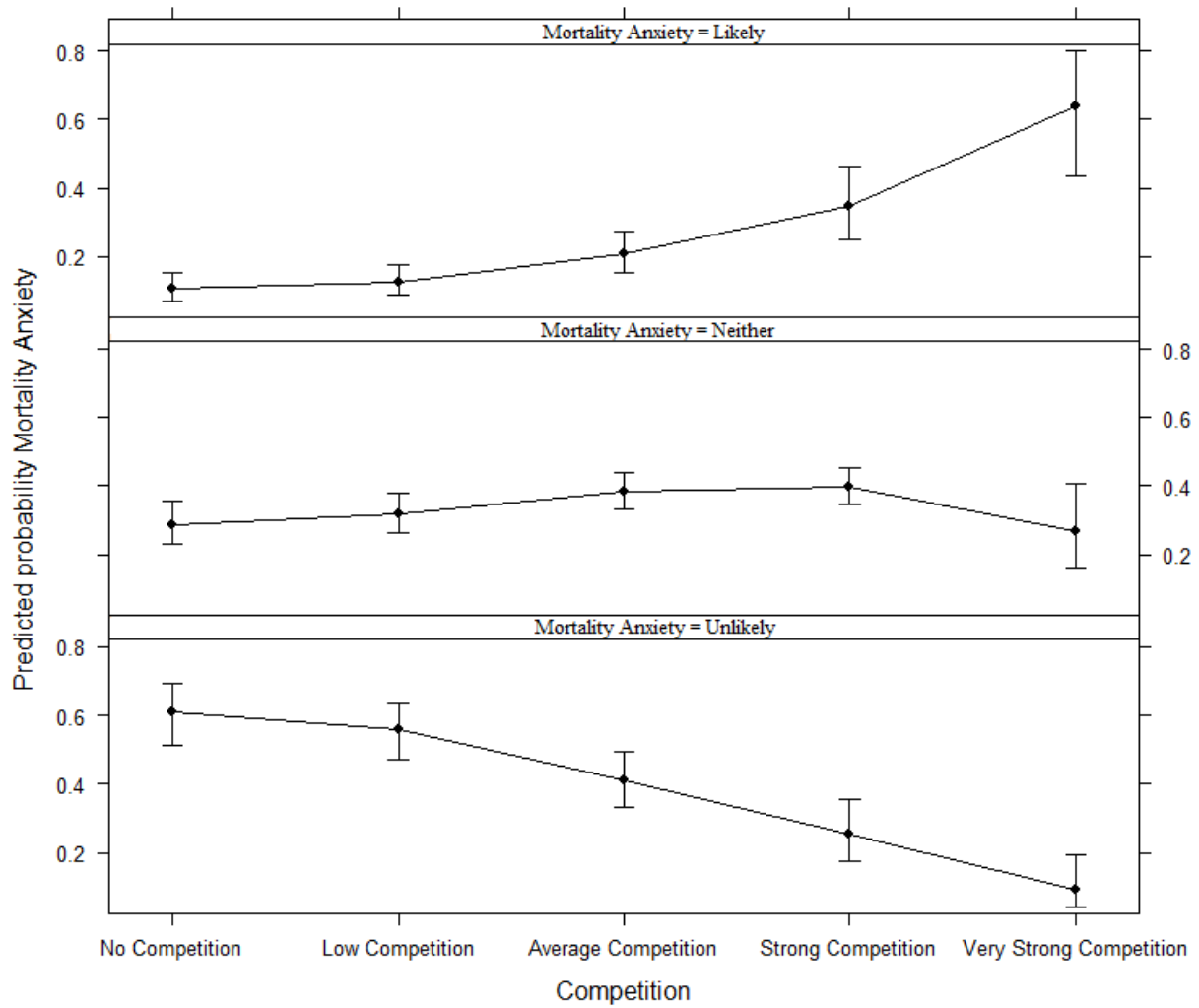
**Table 2. Predicting mortality anxiety (ordinal logistic regression)**

Independent variables	Full model	Interaction Model
Intercept 1/2	-1.64 (0.89) †	2.27 (2.14)
Intercept 2/3	0.07 (0.89)	3.98 (2.14) †
Age (log)	-0.04 (0.11)	-0.03 (0.11)
Membership. 1=nation-wide. ref.	-	-
2=Flemish membership	-0.34 (0.22)	-0.35 (0.22)
3=Francophone membership	-0.23 (0.27)	-0.22 (0.27)
Type. 1=Service groups. ref.	-	-
2=Professionals	0.07 (0.33)	0.10 (0.33)
3=Citizen groups	-0.65 (0.31)*	-0.62 (0.32) †
4=Business	-0.24 (0.35)	-0.19 (0.35)
5=Leisure	-0.43 (0.34)	-0.38 (0.34)
6=Rest	-0.19 (0.45)	-0.21 (0.46)
Diffuse competition (log)	-0.1 (0.11)	-0.10 (0.11)
Specific competition. 1=no. ref. category	-	-
2=little	0.21 (0.26)	0.19 (0.26)
3=moderate	0.8 (0.26)**	0.80 (0.26)**
4=strong	1.52 (0.32)***	1.49 (0.32)***
5=very strong	2.72 (0.48)***	2.73 (0.48)***
Insiderness (index)	-0.06 (0.03) †	-0.06 (0.03) †
Government funding (%)	0.02 (<0.01)***	0.02 (0.01)***
Organizational differentiation (index)	-0.22 (0.09)**	0.50 (0.37)
Number of staff (log)	0.01 (0.01)	0.01 (0.01)
Number of individual members. 0=<median. ref.	-	-
1=median	-0.71 (0.26)**	-0.73 (0.26)**
2=>median	-0.94 (0.28)***	-0.97 (0.29)***
Number of organizational members. 0=<median. ref.	-	-
1=median	-0.31 (0.23)	-0.33 (0.23)
2=>median	-0.45 (0.25) †	-0.47 (0.25) †
Member involvement (index)	0.03 (0.02)	0.22 (0.10)*
Interaction: Differentiation*Membership	-	-0.03 (0.02)*
AIC	961.3	959.2
Residual Variance	913.3	909.2
Log likelihood	-456.7	-454.6
Df	24	25
N	492	492

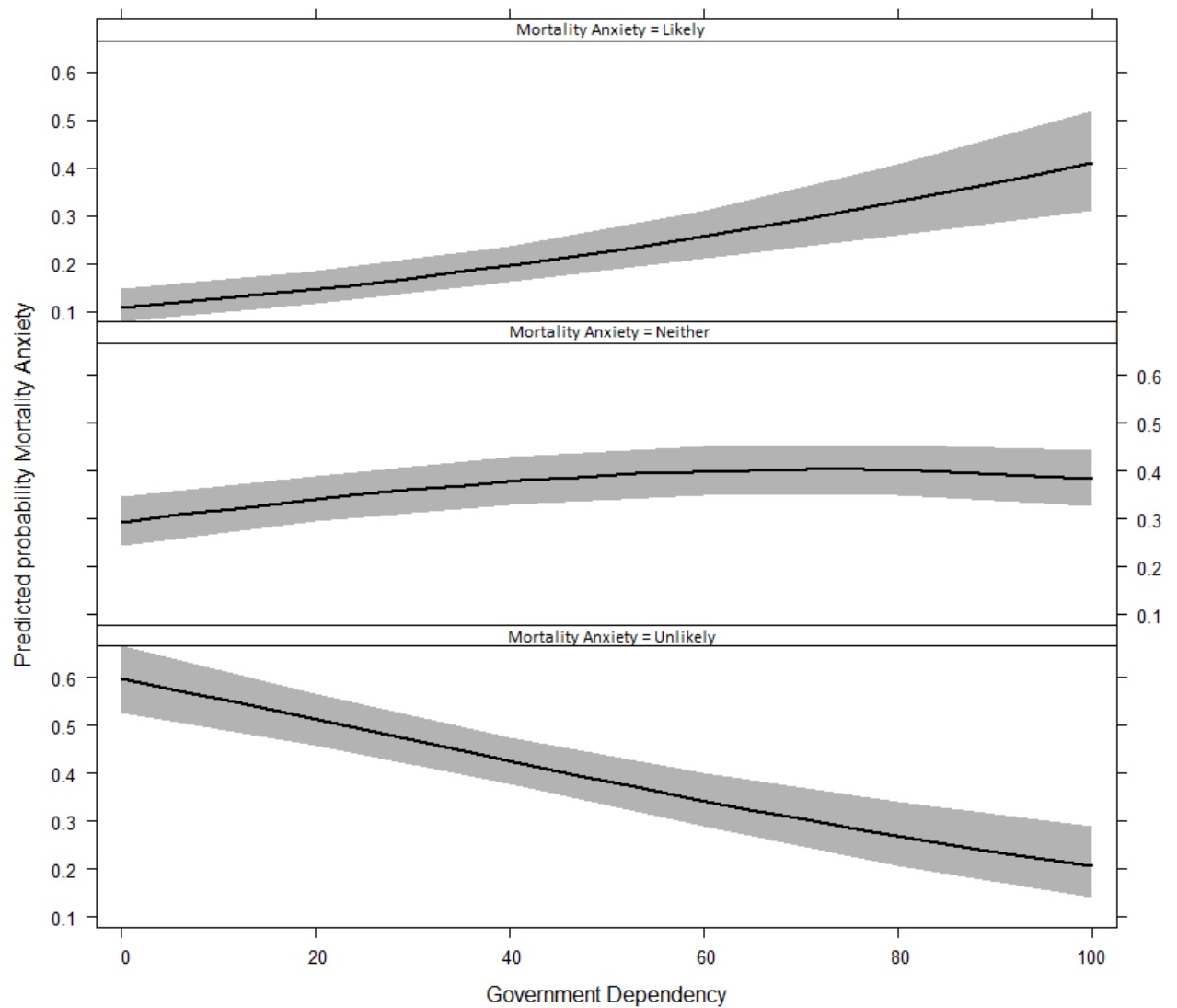
Index: parameter estimates (standard errors between brackets); \*\*\*=<.001; \*\*=<.01; \*=<.05; †=<.1

**Figure 2. Predicted probability of mortality anxiety for different levels of competition**

**(n=492)**



**Figure 3. Predicted probability of mortality anxiety for different levels of government funding (n=492)**



**Figure 4. Predicted probability mortality anxiety of the interaction effect between three levels of organizational differentiation and membership involvement (n=492)**

