VOLUNTARY BUSINESS INITIATIVES CAN REDUCE PUBLIC PRESSURE FOR REGULATING FIRM BEHAVIOUR ABROAD^{*}

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Abstract

Almost all regulatory policy stops at the national border. Thus, when conducting business abroad, the behaviour of firms is regulated by their host, not their home country. Yet, international institutions have issued (non-binding) codes of conduct on social/environmental aspects of firm behaviour, and various high-income countries discuss how to improve extraterritorial firm behaviour – with high political contestation over the appropriate mix of state intervention and corporate self-regulation. Exploiting a unique national referendum on this issue in Switzerland, we investigate how these interact from a public opinion standpoint. Based on a nationally representative survey experiment (N=1564), we find that while baseline support for state

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intervention is high (approx. 60%), corporate self-regulation decreases such support. However, only credible voluntary business initiatives lead to substantial reductions. Our results speak to a broad policy debate in European countries and the EU on how to ensure compliance of firms with human rights and environmental standards.

Keywords: corporate social responsibility, environmental and human rights standards, public opinion, regulatory policy, survey experiment, voting behaviour

1 Introduction

Most economic activity is associated with some negative externalities (Buchanan and Stubblebine, 1962; Pigou, 1920). With advancing economic globalisation, such externalities have increasingly diffused over wider geographic areas. Examples often include cases where environmental (e.g. water and air pollution) or social impacts (e.g. child labour) develop during production in low-income countries, although value-added or consumption eventually takes place in high-income countries. Academic research has made considerable progress in conceptualizing – e.g. as ecological footprints – and quantifying such externalities (see e.g. Aklin, 2016; Lutter et al, 2016). Moreover, various social and environmental minimum standards for international business activities have emerged, often coordinated and issued by international institutions (OECD, 2018; UNEP, 2011). These standard-setting efforts have resulted in a near-global consensus that, irrespective of location, business enterprises must respect human rights and protect the environment and that states must apply such standards to all enterprises domiciled in their jurisdiction (United Nations, 2011).

It remains contested, however, whether government intervention is needed to implement and enforce such norms and to what extent the issue can or should be left to self-regulation by economic actors (e.g. firms or business associations) (see e.g., Locke, 2013; Tosun et al, 2016; Vogel, 2006). With only few exceptions, such as anti-slavery (e.g. the UK's 'Modern Slavery Act', 2015), anti-corruption (e.g. the Swiss anti-corruption law, 2006), and international economic sanctions laws (e.g. US sanctions on Iran), countries do usually not regulate the behaviour of domestic firms that invest, produce, or source goods and services in/from other countries. Nevertheless, several high-income countries have recently considered (e.g., Germany, Netherlands) or enacted (e.g. France's 'Duty of Vigilance Law', 2017) new regulation in this area. Political battles currently wage over the appropriate combination of state intervention and corporate self-regulation (see e.g., Federal Foreign Office, 2016; Hecking, 2017; Koch, 2018; Spiegel Online, 2019; Weydt and Küstner, 2019).

Against this backdrop, we examine mass public preferences on extraterritorial social and environmental regulation, corporate self-regulation, and, in particular, the interplay between them. Our focus lies on whether public demand for government intervention is affected by corporate behaviour and, notably, by voluntary business initiatives. This relationship is vital because it involves a potential incentive for firms to self-regulate and reduce externalities of their economic activity on their own accord as soon as some public regulatory pressure looms.

In our study, we build on a recent argument by Malhotra et al (2018) and carry it forward from local and national environmental policymaking to the issue of regulating corporate behaviour abroad. Building on this argument, we hypothesise that citizens may use corporate action as a source of information to learn about the degree to which the private sector resolves an (e.g. environmental) problem. More specifically, we hypothesise that voluntary corporate responsibility measures have several dimensions that induce a potential crowding-out effect on public demand for government intervention. First, is the corporate sector addressing the substantive problem meaningfully and to what extent is the industry involved? This concerns the 'breadth' of the efforts, i.e. the share of private sector corporations taking action. Additionally, it also comprises the type of corporations that participate (whom regulation would target), i.e. whether industry laggards or specific firms at high risk of violating standards are involved. Second, does the particular design of corporate responsibility measures credibly indicate a change in expected behaviour, i.e. is there some type of monitoring of voluntary firm behaviour?

To test these arguments, we use a vignette survey experiment in which we vary what the corporate sector does and investigate whether citizens change their demand for government intervention. In this case, the empirical focus is on Switzerland, where we can test our arguments in a realistic setting – our survey participants, Swiss citizens, are regularly asked to decide by popular vote on regulatory policy. Specifically, a citizen-initiated referendum scheduled for a national vote in late 2020, the "Responsible Business Initiative" (RBI) would introduce strict social and environmental standards for Swiss firms operating abroad. These include due diligence requirements and liability for human rights violations and violations of environmental standards in other countries. We use this upcoming vote to credibly present our setting to survey respondents (see Appendix Section A.1 for details on the case).

The empirical analysis produces three key findings. First, we show that information on voluntary social and environmental protection measures by the private sector decreases citizens' support for new government regulation in this area more generally, and for the Responsible Business Initiative specifically. Second, the crowding-out effect is substantial (and significant) when the private sector displays sincere and costly efforts to citizens, this is when high-risk firms participate in voluntary initiatives, and when there is third-party oversight of such efforts. Third, in contrast to recent empirical research (Malhotra et al, 2018), we find that the 'breadth' of voluntary initiatives (the share of the private sector taking action) matters much less than the involvement of high-risk firms and third-party oversight.

The paper proceeds as follows. In the next section, we outline our theoretical argument. We then present the empirical study design, our results, and conclude with a discussion of the findings and their research and policy implications.

2 Theory

We contribute to research on the interplay between corporate behaviour and regulatory action, and, in particular, to an emerging body of literature on the effects of corporate behaviour on citizens' political preferences on regulatory policy (Malhotra et al, 2018). We build on arguments describing the effect of corporate action on politically relevant (both governmental and non-governmental) stakeholders to explain how the private sector may influence public opinion (James, 2018; Lyon et al, 2018). Furthermore, we investigate conditions, especially the transparency and ensuing credibility of corporate commitments, under which the effect of corporate behaviour on public demand for regulation may be weaker or stronger (Gardner et al, 2019; Lambin et al, 2018).

2.1 The Interplay between Corporate Behaviour and Regulatory Action

A controversial aspect in academic and policy discussions of firm behaviour concerns the conditions under which corporations are willing and able to engage in appropriate social and environmental behaviour that minimises societal externalities of their economic activity. Not surprisingly, a large body of academic and applied research focuses on this issue (Brekke and Pekovic, 2018).

Representatives of business interest groups often argue that most companies do already integrate environmental and social concerns into their business strategy voluntarily and out of self-interest (Kinderman, 2016; Stöhr and Michel, 2015). This argument is in line with literature that highlights financial incentives as a key driver of sustainable corporate behaviour (see e.g., Endrikat et al, 2014; Flammer, 2015). On the one hand, it posits that firm-level sustainability increases competitiveness by increasing efficiency of production (Bernauer et al, 2007; Rexhäuser and Rammer, 2014). On the other hand, firm-level sustainability may also increase competitiveness by reducing employees' wage requirements (Bode and Singh, 2018; Burbano, 2016) whilst increasing their engagement at work (Carnahan et al, 2017; Flammer and Luo, 2017). Furthermore, if customers value sustainable corporate behaviour, firms may be able to skim consumers' willingness to pay for sustainable products (see e.g., Hainmueller et al, 2015). Lastly, from a consumer psychology perspective, sustainable corporate behaviour has been argued to create a stronger, more meaningful relationship between consumers and companies (Chernev and Blair, 2015; Sen et al, 2016).

Critics contend that sustainable corporate behaviour is more likely to be driven by strategic objectives – to for example raise entry barriers for potential competitors (Denicolò, 2008; Urpelainen, 2011) or to preempt government regulation (Lutz et al, 2000; Maxwell and Decker, 2006).

However, not only can sustainable corporate behaviour be understood as a 'signal' (visà-vis regulatory authorities) but it can also serve to legitimise business practices towards a wider group of stakeholders, such as elected politicians, civil society organisations, and citizens (see e.g., Baron et al, 2011; Delmas and Toffel, 2008). This purpose of sustainable corporate behaviour is often referred to as regulatory or social license to operate (Howard-Grenville et al, 2008). Thus, by carefully constructing a social license to operate or by reframing their business practices, firms may be able to influence their reputation and reap political benefits (Fooks et al, 2013; Hong and Liskovich, 2019; Werner, 2015).

2.2 How Corporate Behaviour Can Affect Public Opinion

Our arguments focus on how public demand for private sector regulation is affected by voluntary pro-environmental and pro-social initiatives by the very same private sector. We build our causal argument on the literature on regulatory preemption (Baron, 2014; Fleckinger and Glachant, 2011; Glachant, 2007; Maxwell et al, 2000). We put forward a framework of decision-making where public demand for an additional unit of regulation (R) is a function that depends positively on the probability that additional regulation reduces a given risk (P) and negatively on marginal costs of firms for additional units of risk management (M). In turn, P depends negatively, while M depends positively, on current firm risk management L, i.e. demand for regulation $R=R(\stackrel{+}{P}(L), \tilde{M}(\stackrel{+}{L}))$. If firms engage in voluntary behaviour and hence shift L, this moves P downward and M upward – it thus makes any additional unit of regulation appear both less beneficial and more costly.

Hence, along the lines of Malhotra et al (2018), we propose that voluntary measures convey information to the public that a specific issue or problem is being addressed and, at least partially, solved. We thus expect that voluntary private-sector measures crowd out public demand for more government intervention. More specifically, committing to voluntary environmental and social protection measures implies costs for the private sector. We submit that by voluntarily incurring such costs in efforts to protect the environment and employees at production sites, the private sector addresses public concerns over inappropriate environmental or social risks and implies that stricter government-imposed rules regarding that issue are not necessary. In sum, by confronting the problem at hand voluntarily, the private sector seeks to reduce the perceived need for regulatory action. Furthermore, once firms have invested in environmental and social protection, citizens might be unwilling to ask for more stringent government regulation which could potentially devalue firms' investments (Malhotra et al, 2018). We thus hypothesise that:

Hypothesis H_1 : Voluntary environmental and social protection measures by the private sector reduce public demand for stricter government regulation.

H1 addresses a mechanism by which firm behaviour affects current risk levels. For example, in the particular case of multinational enterprises (MNE) producing in countries with low environmental and social standards, the most plausible scenario of private-sector measures is one of reporting. In that case, the private sector would increase transparency and firm-level comparability, and thus potentially reduce the perceived need for monitoring and further action by the government. This, in turn, lowers the benefits (or the necessity) of regulatory action and hence decreases demand for regulation.

In the same vein, more socially and environmentally responsible firm behaviour, i.e. more elaborate voluntary firm initiatives, are likely to reduce demand for regulation even further. We call this the substantive extent of voluntary measures. Malhotra et al (2018) introduce two dimensions in this regard, 'depth' and 'breadth' of voluntary initiatives ('breadth' refers to how many firms in a sector engage, while 'depth' entails the extent of their programmes).

Similarly, we argue that voluntary action by more firms is likely to affect public opinion more strongly. However, in practical political discourse, debates usually focus on specific sectors or even companies, e.g. as these are called out by civil society watchdog organisations or targeted by government monitors. This is, as firms in different segments of the private sector differ in the levels of risk they pose to people and the environment. For example, Swiss companies in the commodities sector (e.g. minerals, cotton) are prominent targets of criticism related to alleged negative externalities of their business operations abroad. Theoretically, the participation in voluntary action by firms from these sectors combines elements of both breadth and depth. On the one hand, the participation of firms from the high-risk sector indicates breadth, since it demonstrates commitments by a group of important actors. On the other hand, it shows depth, because the involvement of these firms is likely to imply a stronger reduction of overall risk levels (i.e. addressing 'hotspots'). Together, this should reduce demand for regulation to a more substantial degree.

In sum then, the substantive extent of voluntary measures increases with the share of the private sector that takes action. It increases as well with the commitment of highrisk companies as they address the issue where action is (at least perceived to be) most urgently required. We thus hypothesise that:

Hypothesis H_2 : Voluntary environmental and social protection measures particularly reduce public demand for regulation if they are implemented by a large share of the private sector.

Hypothesis H_3 : Voluntary environmental and social protection measures particularly reduce public demand for regulation if high-risk firms participate in such efforts.

Yet another critical facet of private-sector commitments to corporate responsibility pertains to transparency and oversight, which extends the concept of 'depth' proposed by Malhotra et al (2018). This is particularly important for extraterritorial firm behaviour, where it is difficult for citizens to observe outcomes of voluntary private-sector environmental and social protection measures. Due to geographical and cultural distance and an oftentimes low information flow from developing countries, firms have a particular informational advantage, which may incentivise corporations to overstate their environmental and social performance, misleading the public to develop unduly positive beliefs about corporate environmental and social practices (Delmas and Burbano, 2011; Lyon and Montgomery, 2015). Aware of such information asymmetry, citizens may be reluctant to update their preferences based on information conveyed by voluntary private-sector environmental and social protection measures. In other words, private sector action might be perceived unreliable by the public unless voluntary measures and their outcomes are made transparent and subject to external oversight through an independent organisation (Gardner et al, 2019; Lambin et al, 2018). However, external oversight might not only represent a control mechanism over whether firms have complied with a particular standard or target but is likely to include a certain level of public scrutiny with regard to the amount of effort exerted by firms, i.e. the depth of voluntary corporate measures. Hence, we argue that external (third party) oversight increases the reputational stakes of firms that engage in voluntary measures and thus indicates a stronger commitment, which in turn increases the credibility of information conveyed to the public (Botero et al, 2015). We, therefore, hypothesise that:

Hypothesis H_4 : Voluntary environmental and social protection measures reduce public demand for regulation particularly if they include third-party oversight.

To summarise, we propose that the private sector's 'signal' to citizens, as conveyed through voluntary environmental and social protection initiatives, can vary along two dimensions: substantive extent and credibility. We expect that stronger voluntary business initiatives along these lines, especially initiatives combining the different factors outlined above, will be more effective in reducing public demand for more government regulation in the respective area.

3 Study Design

Our study design relies on a framing experiment (Chong and Druckman, 2007; Mutz, 2011) embedded in a survey on public opinion concerning MNEs based in Switzerland. The survey was implemented from November 6 to 28, 2018. It was designed by the authors and was fielded through Intervista's online panel,¹ which is one of the largest online survey panels in Switzerland². From this panel, a sample of 3010 Swiss citizens above age 18 (hence eligible to vote) was drawn. We used interlocked quotas on age and gender as well

¹ https://www.intervista.ch/about/?lang=en

² Empirical evidence (Ansolabehere and Schaffner, 2014; Baker et al, 2013) suggests that samples from online panels are comparable to traditional random samples in terms of representativeness and produce similar results for hypothesis tests. In Appendix Section A.2.3 we show that survey respondents have a highly comparable distribution of a core attitudinal component of our issue area, environmental concern(Diekmann and Preisendörfer, 2003), compared to a dual-mode address-based sample of Swiss citizens in 2018.

as quotas on education and regional provenance of the participants to make the sample representative of the Swiss voting population with respect to these criteria. The survey was administered in German, French, and Italian (the main languages of the country) and was approved by the ETH Zürich's Ethics Review Commission (decision EK 2018-N-68). As respondents were randomly branched into this and a second survey experimental component (cf. Rudolph et al, 2019), our main analysis relies on the responses of 1564 respondents directly shown the experimental vignettes described below.³ See Appendix Section A.2.2 for a detailed discussion of the survey structure and design.

3.1 Dependent Variables

We recorded study participants' preferences towards regulation with two survey items on 'general' demand for regulation and two survey items measuring support for the Responsible Business Initiative (RBI). Appendix Sections A.1.1 and A.1.2 provide detailed information on the demands and the political context of the RBI. First, survey participants were asked to indicate how much they agree or disagree with two statements (presented in randomised order) on a 5-point Likert scale. These were (translation from German):

- The Swiss government should supervise and regulate the activities of Swiss companies abroad more closely.
- Voluntary measures by Swiss companies at their locations abroad are sufficient to protect people and the environment there.

We also asked participants to indicate their agreement or disagreement on a 5-point Likert scale concerning a battery of statements aimed at eliciting particular perceptions of voluntary business initiatives (see Appendix Section A.4). These statements measured to what extent participants perceive voluntary initiatives by firms to be trustworthy, costly, and indicative of firms' interest in protecting people and the environment.

We then asked participants about whether they would vote for or against the RBI if the vote were held today. We measured support for the RBI using both a trichotomous item (yes/no/don't know) and a 7-point scale to allow for an expression of nuanced opinions. Before replying to these questions, we redisplayed the respective vignette texts (see below) to participants. This was meant to keep the temporal distance between exposure to

³ We thereby warrant against carryover effects from the second branch of the survey.

the vignette and the response similar between our dependent variables. We also made sure that participants had a homogeneous level of information about the referendum by displaying a summary of the referendum's contents to all participants before eliciting their preferences.

3.2 Experimental Vignettes

We randomly exposed study participants to varying information about voluntary measures by Swiss firms operating abroad. In particular, participants were randomly assigned to one of six groups – a placebo group and five treatment groups. Participants assigned to the placebo group were given a very broadly formulated text stating that different opinions exist about whether new government rules for firms operating in other countries are necessary. We opted for a placebo group instead of a control group receiving no information at all to keep the exposure to the amount of text comparable among respondents. Those assigned to one of the treatment groups were presented with information about voluntary measures by firms. This information varied on two dimensions:

- substantive extent, in particular
 - whether the voluntary measures were implemented by most firms or only by a few firms, and
 - whether companies dealing with natural resources ('high-risk' firms) participated in the voluntary measures.
- credibility, in particular
 - whether there was external oversight by an independent non-profit organisation.

We ensured that all participants (including the placebo group) were aware that Swiss firms which are active in the commodities sector - e.g. firms that deal with minerals, oil, or agricultural products - are at a higher risk of causing negative environmental and social externalities. We did so by including a short sentence in the introduction to the experiment about the higher risks to humans and the environment in the resource business (see Appendix Section A.2.1).

Group	Placebo	1	2	3	4	5
Do firms engage in voluntary initiatives?	No mention	Yes	Yes	Yes	Yes	Yes
Most firms or only few firms?	-	Few firms	Most firms	Most firms	Most firms	Most firms
Are commodity com- panies involved?	-	Yes	No mention	No mention	Yes	Yes
Is the report to be checked by an NGO?	-	Yes	No mention	Yes	No mention	Yes

 Table 1: Overview on treatment composition

Table 1 gives an overview on the experimental conditions. For reasons of statistical power, we used a fractional factorial design. In particular, we tested all possible combinations of vignette attribute levels within the group that received the statement that 'most firms' engage in voluntary initiatives. Additionally, we tested a most likely treatment text for the group that was confronted with the statement that 'only few firms' engage in voluntary initiatives. The rationale was that, theoretically, within that latter group, we would not expect any other treatment but the treatment of including high-risk firms and NGO monitoring to be able to move respondents' opinions.⁴ A translation of the German treatment texts are outlined in Appendix Section A.2.1.

3.3 Estimation Strategy

We analysed the data⁵ by comparing conditional means for the different vignette treatments to our placebo, and also relative to each other. We did so by estimating a linear regression model of the following form:

$$Y_{ni} = \alpha + \beta_2 T_{2i} + \beta_3 T_{3i} + \beta_4 T_{4i} + \beta_5 T_{5i} + \beta_6 T_{6i} + \gamma X_i + \epsilon_i$$

 Y_i represents a response by participant *i* on survey item *n* (dependent variable). The baseline is the placebo treatment (T_1) (see Table 1). Without inclusion of control variables, the constant α can hence be understood as the average response absent any treatment.

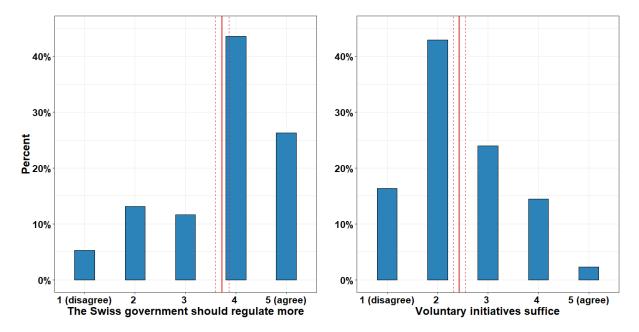
⁴ I.e., we test here whether review by an NGO and the high-risk sector treatment combined could 'compensate' for lack of participation in the voluntary initiatives.

⁵ See Appendix Section A.6 for software used for the analysis.

The coefficients β_2 to β_6 indicate treatment effects for the binary vignette treatments T_2 to T_6 . We control for a vector of socio-demographic and political control variables X_i (see Appendix Table A.13 for results without control variables).⁶

4 Results

We start with the distribution of our main dependent variables before proceeding to the analysis of treatment effects on these variables.



4.1 Support for Regulatory Action

Figure 1: Baseline (i.e. only placebo group) mean and distribution on survey items 'The Swiss government should supervise and regulate the activities of Swiss companies abroad more closely.' (left, N=266) and 'Voluntary measures by Swiss companies at their locations abroad are sufficient to protect people and the environment there.' (right, N=263). Responses measured on a 5-point Likert scale (5: 'completely agree'; 1 'completely disagree'). The solid line displays the mean with 95% confidence interval (dashed lines).

⁶ Control variables include respondents' gender, age group, self-evaluation of personal economic situation, education level, employment status, rurality, language, region of Switzerland, self-placement on left-right scale, party ID, and self-stated voting frequency.

Figure 1 displays two histograms for respondent (placebo group) preferences over regulatory action. The left panel presents the distribution of preferences for more state regulation, whereas the right panel shows to what extent study participants perceived voluntary firm measures as sufficient to protect humans and the environment at Swiss firms' operation sites abroad. As can be seen, distributions are lop-sided towards the regulation-friendly sides of the scales, i.e. on average a majority of respondents prefers more government intervention and regulation for MNEs abroad and disagrees with the statement that voluntary measures by firms suffice.

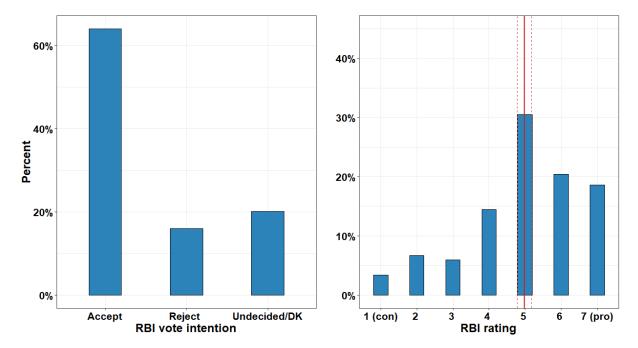


Figure 2: Baseline (i.e. only placebo group) distribution on survey items 'If you had to vote on the Responsible Business Initiative today, how would you decide? I would accept it/reject it/don't know.' (left, N=269) and 'On a scale from 1 (totally against) to 7 (totally in favour), how strong are you for or against the Responsible Business Initiative?' (right, N=269). Responses are measured on a 7-point Likert scale. The solid line displays the mean with 95% confidence interval (dashed lines).

Figure 2 displays the distribution of public support for the RBI. Asked for for/againstvoting intentions, around 64% of participants would support the RBI (no: 16%; don't know: 20%) (left panel). Similarly, on a 7-point-scale, average responses are tilted towards higher scores and hence supportive of the RBI (right panel).⁷

⁷ Given that the vote is scheduled only for 2020, the large share of 'don't know'-responses is a reflection

4.2 How Voluntary Corporate Initiatives Affect Support for Government Action

4.2.1 Overall Effect of Voluntary Initiatives

Hypothesis H_1 posits that information about voluntary environmental and social protection measures by the private sector reduces public demand for regulation. Indeed, we observe that our treatments have negative effects on respondents' regulatory preferences as measured by our dependent variables (both regulatory support and RBI rating/support). Pooling all our treatment conditions and comparing them to the placebo group (see Appendix Table A.2), we observe that respondents are less likely to agree that the state should be regulating Swiss firms abroad (decrease of 0.13 on a 5-point-scale, 3.5% of the placebo group mean, significant at the 10% level), that respondents are more likely to agree that voluntary measures are sufficient (increase of 0.17 on a 5-point-scale, 7% of the placebo group mean, significant at the 5%-level), and that respondents are less likely to support the RBI (decreased rating by 0.22 on a 7-point-scale, 4.4% of the placebo group mean, significant at the 5%-level; decrease of yes-share by 6 percentage points, 9.4% of the placebo group mean, significant at the 10% level; increase of no-share by 6 percentage points, 37.5% of the placebo group mean, significant at the 5%-level).

4.2.2 Effects of Substantive Extent and Credibility of Voluntary Initiatives

Hypothesis H_2 and H_3 suggest that if the treatment text about voluntary initiatives by firms contains information about the participation of a large share of the private sector (H_2) or about commitments by high-risk companies (H_3) , public demand for regulation is likely to decrease. Similarly, in Hypothesis H_4 , we argue that if external oversight is part of the voluntary environmental and social protection measures by the private sector, public demand for regulation is likely to decrease.

Empirically, we indeed observe that a combined vignette highlighting broad participation, inclusion of high-risk firms, and NGO oversight (*many, risk, NGO*-vignette) has the strongest effect on respondents' opinions (see Figure 3). With this combination of treatments, preferences for more regulation decrease by about 0.31 on the 5-point regulatory preference scale, and the perception of the sufficiency of voluntary initiatives increases

of, at the time of the survey field time in November 2018, still modest levels of public attention and campaigning.

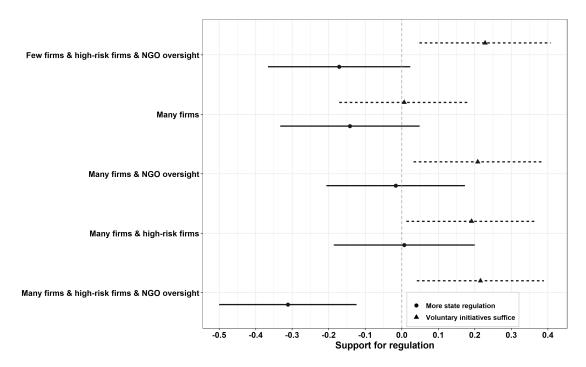


Figure 3: Estimates of treatment effects of vignette conditions relative to the placebo group on the outcome variable 'more state regulation' (item wording: 'The Swiss government should supervise and regulate the activities of Swiss companies abroad more closely.') (circles, N=1456) and on the outcome variable 'voluntary initiatives suffice' (item wording: Voluntary measures by Swiss companies at their locations abroad are sufficient to protect people and the environment there.') (triangles, N=1420). Responses measured on a 5-point Likert scale (1: 'completely disagree'; 5 'completely agree'). Whiskers report 95% confidence intervals. The regressions include socio-demographic and political controls. Full results are reported in Appendix Table A.12.

by about 0.21 on the same scale (see Figure 3). At the same time, the rating of RBI approval decreases by about 0.43 on the 7-point approval scale (see Appendix Figure A.16). Substantively, these results are about the size of one-quarter of a standard deviation. A substantial shift is apparent for the RBI yes share: it decreases by about 12 percentage points (significant at the 1%-level). The vignette that highlights the inclusion of high-risk firms and NGO oversight despite participation by only some firms (*few, risk, NGO*-vignette), consistently alters respondents' opinions, albeit to a lesser extent compared to the *many, risk, NGO*-vignette (see Figure 4). One additional noteworthy finding is that the *many, risk, NGO*-vignette shifts responses from the RBI-yes share to the RBI-no option, the *few, risk, NGO*-vignette shifts yes-replies towards both no- and

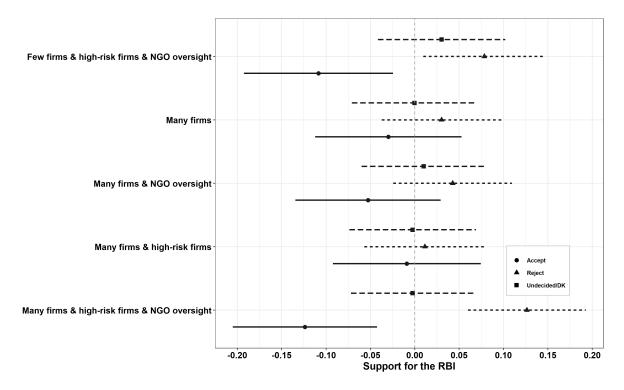


Figure 4: Estimates of treatment effects of vignette conditions relative to the placebo group on the outcome variable 'RBI support' (item wording: 'If you had to vote on the Responsible Business Initiative today, how would you decide? I would accept it/reject it/don't know.' (accept: circles; reject: triangles; don't know: squares, N=1472). Whiskers report 95% confidence intervals. Regressions include socio-demographic and political control variables. Full results are reported in Appendix Table A.12.

don't know answer categories (see Figure 4). Hence, where only some firms take voluntary action, some respondents seem to be insecure about how to interpret this signal.

All other vignettes – many, no risk, no NGO, many, risk, no NGO, many, no risk, NGO – move respondents' opinions into the expected direction, albeit to a much smaller extent. Only for the item 'are voluntary measures sufficient' do opinions shift in a statistically significant way for the many, risk, no NGO-vignette and the many, no risk, NGO-vignette. On the other outcome variables, treatment effects do not reach conventional levels of statistical significance. Importantly, when comparing treatment conditions among each-other, treatment coefficients for the many, risk, NGO-vignette are in many cases substantially and significantly stronger compared to the many/many, risk/many, NGO-vignettes.

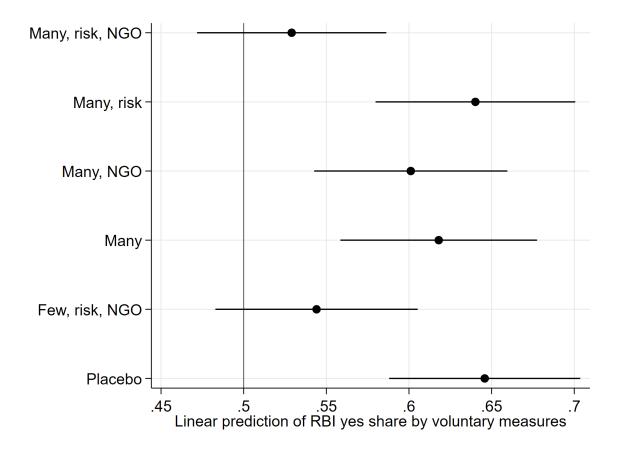


Figure 5: Predictions of RBI support, i.e. share of respondents who would accept the RBI (item wording: 'If you were to vote today on the Responsible Business Initiative, how would you vote? I would accept it/reject it/don't know.' (N=1564)), for the differing vignette conditions and the placebo group. Whiskers report 95% confidence intervals. The regression includes socio-demographic and political control variables, as reported in Appendix Table A.12.

Our findings have important implications for policy and the RBI in particular. As noted above (see Figure 2), absent any information on voluntary firm action, the yes share (vs the no share and the 'don't know/undecided' share) exceeds 60%. However, our results suggest that voluntary corporate behaviour reduces public support towards the point of tipping the balance against the RBI in a referendum. This interpretation follows directly from predicted RBI support, given the different vignettes (see Figure 5). Specifically, we observe that the predicted values of public support for the many, risk, NGO and the few, risk, NGO-vignettes – both around 54% – are significantly below the placebo group value

of 64%. Most notably, the confidence interval for these predicted values crosses the 50% mark and thus underlines the shift of respondents' policy preferences into a competitive realm around the majority threshold.

In a final step, based on survey items recording respondents' perceptions of and attitudes towards voluntary corporate initiatives, we examined why our treatments conditions were (not) able to affect respondents' regulatory preferences. Appendix Section A.4 summarises our findings. The results indicate that voluntary corporate initiatives indeed convey a stronger and more credible message when both risk-firms and NGO oversight are included. However, due to small coefficient sizes and low statistical power, these tests do not allow for definite conclusions.

In sum, our results here suggest first, that to have a meaningful impact on public opinion, corporate self-regulation must combine several conditions and second, that study participants discern the nuances of differing voluntary business initiatives. They are affected in their regulatory preferences only by strong corporate commitments.

4.2.3 Subgroup Effects and Robustness Checks

As recommended by Mutz (2011), we exploit one of the major advantages of a populationbased survey experiment and assess how regulatory preferences vary across different types of voters/citizens. In order to test for interactions between respondent characteristics and corporate behaviour vignettes, we stratify the primary analysis by binarised indicator variables for respondent's (self-reported) voting probability, political interest, prior knowledge of the RBI, environmental concern, political ideology, as well as age, gender, education, income, employment status, cultural background (French/Italian vs German-speaking part of Switzerland), settlement type of household location (urban/rural) and, last but not least, survey time (results are presented and discussed in detail in Appendix Section A.3). Note that this is a mainly explanatory analysis based on the variables available to us from our survey instrument. We therefore refrain from strong interpretations of these patterns. However, we think they are useful for future research as well as for policymakers, as they provide some indications for which respondents the crowding-out effect is particularly relevant. Taken together, we find that A) crowding out is stronger where baseline support is higher (respondents with high voting probability, high environmental concern) and B) that crowding out is taking place with subgroups that are less privileged within the political/social system (low education, low income, females, rural populations).

To check the validity of our results, we submitted our analysis to a series of robustness tests. First, we assessed the robustness of our results with regard to different model specifications (with/without control variables); while results are comparable in principle, adjusting for covariates makes sense in our case due to some imbalances in random assignment. Second, we aggregated our various measurements of demand for regulation to warrant against measurement error. Employing this aggregated measure confirms our findings. Third, we address the multiple comparisons problem. This issue can arise when testing multiple hypotheses on the same data sample and as a consequence of which, pvalues not reporting the true probability of committing a type-1 error (Benjamini, 2010; Benjamini and Hochberg, 1995). On the whole, the estimated treatment effects induced by the many, risk, NGO-vignette can be interpreted as robust. Concerning the few, risk, NGO-vignette, such strong conclusions cannot be drawn. Hence, it seems that voluntary corporate initiatives mainly reduce support for government regulation of corporate behaviour abroad if they combine broad corporate participation (from high-risk sectors as well) with external oversight. The detailed outcomes of these robustness checks, as well as a discussion thereof, are presented in Appendix Section A.5.

5 Discussion

The existing literature has put forward various arguments on why firms may choose to improve on their environmental and social impacts in the absence of stringent regulation. We are concerned with a line of research that focuses on the strategic (Delmas and Toffel, 2008; Lutz et al, 2000) and political reasons (Baron, 2014; Werner, 2015) for why firms engage in such behaviour.

Whether explicitly intended or not, voluntary corporate initiatives are likely to convey information about corporate behaviour towards the mass public (and also other political stakeholders) and may thus influence public demand for changes to the status quo of government regulation. We argued that by voluntarily incurring a cost in efforts to engage in socially and environmentally more sustainable business operations, firms might demonstrate citizens that stricter government-imposed rules are not necessary. We also argued that voluntary corporate responsibility measures vary in strength (and thus impact public demand) with three general characteristics: first, the share of the private sector ('breadth') associated with the measures; second, the type of firms committing to voluntary measures; and third, external oversight (which enhances credibility due to increased reputational costs of non-compliance with self-imposed standards).

Based on a vignette survey experiment with a representative sample of Swiss citizens of voting age, we focus on a case where citizens are actually scheduled to vote in a national referendum on the subject of our study. The main question in this referendum is whether voluntary self-regulation is sufficient for coping with environmental and social impacts of Swiss firms abroad, or whether new government regulation is needed. Compared to many other survey experiments on corporate social responsibility issues, which rely on hypothetical scenarios, this real-life setting makes our study empirically realistic and policy-relevant. More specifically, the connection to an actual policy debate allowed us to model our survey-experimental setup, and in particular, our treatments, based on claims made 'in the real world' about voluntary corporate environmental and social protection efforts (see, e.g., DeCarli, 2019; Scherrer, 2017; Stöhr and Michel, 2015).

Although our study is nested within one country case, we propose it provides valuable inputs to public policy (research) beyond that particular context for three reasons. First, other European countries and the European Union currently debate stricter regulation of supply chains of domestic firms (not restricted to particular sectors) abroad (see e.g, Augenstein et al, 2018; European Parliament, 2020; Zacharakis, 2019). Second, Switzerland is a small open economy and MNEs are highly relevant for the country – hence, we assess a case where corporate behaviour and the regulation thereof are economically relevant to respondents (Walser and Bischofberger, 2013). Finally, Switzerland is comparable to its European neighbours with regard to its GDP per capita (International Monetary Fund, 2018) as well as with regard to the strength of pro-regulatory parties in parliament. Thus, keeping the limits to extrapolation beyond our Swiss sample in mind, as long as economic and post-materialist considerations determine public opinion on the matter to a similar extent in other Western European countries, it seems sensible to expect corresponding public opinion formation processes (see e.g., Allendoerfer, 2017; Diekmann, 1999).

Our analysis shows that voluntary initiatives do reduce public support for new and stricter government regulation of corporate environmental and social behaviour abroad. In what is likely to be the most policy-relevant finding, voluntary initiatives characterised by involvement of critical parts of the private sector and third-party oversight have the potential of reducing support for new government regulation from around 60% down to the tipping point of around 50%. Whether voluntary initiatives involve broad or narrow participation of the respective industry makes less of a difference as long as critical actors

participate and submit to third party monitoring.

Given the economic stakes and the sincerity of the decision making context, one might have expected that citizens are reluctant to regulate business, and rather lenient in accepting voluntary corporate programmes as a solution. In comparison to Malhotra et al (2018), it is surprising that citizens want to regulate companies more strongly and only react to the most ambitious voluntary corporate programmes. Research in other European countries could investigate why this is the case, and whether the extraterritorial nature of the question at hand and/or the context and/or the formulation and presentation of vignettes drives these differences. Still, we would overall expect for the broader European context and the political debate on extraterritorial supply chain oversight that Western-European citizens are willing to regulate corporate behaviour abroad.

Nevertheless, research should pay more attention to the fact that voluntary corporate initiatives may in fact be "shallow", i.e., undemanding, and may thus be conveying inaccurate information to voters and other stakeholders about environmental (and social) problem-solving. Hence, future studies should investigate whether citizens' regulatory preferences change if potential "shallowness" of private sector self-regulation is made public. We further encourage research concerning factors driving public opinion towards multi-stakeholder programmes (e.g. the Alliance for Responsible Mining or the Greenhouse Gas Protocol) that are increasingly gaining prominence.

Finally, our arguments and empirical findings can also inform norm-setting debates at the international and global level. The United Nations and other institutions have issued a plethora of new standards over the past years, demanding stricter due diligence from companies with respect to human rights and the environment. Most companies and governments have a responsibility to implement these standards. Such efforts to regulate, or at least monitor, extraterritorial production and sourcing are unfolding in a policy realm that has thus far paid most attention to issues other than social and environmental impacts. Our results show that the (Swiss) public supports these recent efforts. They also show that voluntary corporate measures are seen as an important part of the standard-setting and standard implementation effort. Moreover, if the public supports these national standard-setting efforts to the extent we find, corporate actors will also have incentives to comply with global standards voluntarily and to engage in international industry programmes to avoid more stringent regulation at the national level.

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Online Appendix for

'VOLUNTARY BUSINESS INITIATIVES CAN REDUCE PUBLIC PRESSURE FOR REGULATING FIRM BEHAVIOUR ABROAD'

A.1 Demand for Regulation: The Case of the Responsible Business Initiative

The following section introduces our case, the Responsible Business Initiative in Switzerland, by which civil society organizations and citizens in Switzerland seek to implement a strict and binding implementation of the "UN Guiding Principles on Business and Human Rights", and thus improve the environmental and human rights performance of Swiss companies in foreign countries.

The direct democratic political system in Switzerland gives citizens the right for a citizens' initiative for a partial revision of the Swiss Constitution (also called 'petition for a popular referendum', German: "Eidgenössischen Volksinitiative auf Teilrevision der Bundesverfassung"). This is a far-reaching mean for citizens to directly amend the Constitution from outside parliament, without judicial review. As discussed by Serdült (2014, 72f.), with such an initiative, "parliament in such a case has no control over the proposed text, which can take the form of a general proposal or of a specific draft. In cases where parliament agrees with a general proposition, it is supposed to draft the respective constitutional provisions and submit it to a vote. In cases where it does not agree, the proposition is put to the people for a vote [...]. Should the people accept, a corresponding bill has to be drafted by the National Assembly, which is then again put forward to the people for a binding vote (requiring a double majority)." The only two requirements to start such an initiative is a collection of 100,000 signatures of Swiss citizens within 18 months, and its formal correctness (compliance with *ius cogens* and comprising only one well-defined subject). Hence, citizens can propose far-reaching institutional changes as well as submit extreme policy, though these are rarely accepted at the ballot box in political practice. Note that parliament can react to initiatives in two ways: First, by coupling the initiative with a direct counter-proposal. As noted by Serdült (2014, 73), "counter-proposals are usually less extreme than citizens' initiatives; however, they tend to incorporate some of the demands by the initiators and thus have, in general, a higher chance of passing." If a direct counter-proposal is put on the ballot by the legislative, citizens vote yes/no for both initiative and counter-proposal and answer a tie-break question (which proposal should be accepted in case of a dual yes vote). Second, the legislative can agree on a so-called indirect counter-proposal. This is a law, which both parliamentary chambers agree upon. While this law is not put before the people, it takes up the core demands of an initiative in a less extreme form, intending to provide incentives to the initiators of the initiative to pull back their requests before the vote happens.

The following subsection lists the proposed initiative text, i.e. what citizens will vote on to ensure compliance of Switzerland with the UN Guiding Principles on Business and Human Rights. Next, we present the broader context of the initiative, details on the institutional setting, and its timeline, and place our survey therein.

A.1.1 Responsible Business Initiative: English translation of the proposed amendment to the constitution by the initiative

The Federal Constitution will be amended as follows:⁸

Art 101a: Responsibility of business

1 The Confederation shall take measures to strengthen respect for human rights and the environment through business.

2 The law shall regulate the obligations of companies that have their registered office, central administration, or principal place of business in Switzerland according to the following principles:

a. Companies must respect internationally recognised human rights and international environmental standards, also abroad; they must ensure that human rights and environmental standards are also respected by companies under their control. Whether a company controls another is to be determined according to the factual circumstances. Control may also result through the exercise of power in a business relationship.

b. Companies are required to carry out appropriate due diligence. This means in particular that they must: identify real and potential impacts on internationally recognised human rights and the environment; take appropriate measures to prevent the violation of internationally recognised human rights and international environmental standards, cease existing violations, and account for the actions taken. These duties apply to controlled companies as well as to all business relationships. The scope of the due diligence to be carried out depends on the risks to the environment and human rights. In the process of regulating mandatory due diligence, the legislator is to take into account the needs of small and medium-sized companies that have limited risks of this kind.

c. Companies are also liable for damage caused by companies under their control where they have, in the course of business, committed violations of internationally recognised human rights or international environmental standards. They are not liable under this provision however if they can prove that they took all due care per paragraph b to avoid the loss or damage, or that the damage would have occurred even if all due care had been taken.

d. The provisions based on the principles of paragraphs a - c apply irrespective of the law applicable under private international law.

⁸ For German original see Swiss Federal Bulletin BBl 2017 6335, online at: https://www.admin.ch/ opc/de/federal-gazette/2017/6379.pdf.

A.1.2 Responsible Business Initiative: Context and Timeline

In the last decade, an international debate highlighted regulatory gaps between countries and emphasised countries' duty and corporations' responsibility to guarantee social and environmental minimum standards in production. The debate has been initiated by the United Nations' release of the 'UN Guiding Principles on Business and Human Rights' in 2011 (United Nations, 2011). The paradigm posited in that document consists of three main elements:

- 1. states' duty to protect their citizens from threats (also from corporations),
- 2. corporate responsibility to respect human rights, and
- 3. individuals' right to compensation for human rights violations by corporations.

Notably, the Guiding Principles promote a state duty to protect citizens from environmental damages and human rights violations *abroad*. This would require countries (in particular affluent Western countries), to regulate the behaviour of domestic firms and production conditions within those firms' supply chains on other countries' territory (hence, extraterritorial regulation). Even though this agenda is being promoted by international organisations (see also, UNEP, 2011; OECD, 2018), individual states are called upon to influence the extraterritorial behaviour of their companies.

To this day, the United Kingdom ('Modern Slavery Act', 2015) and France ('Duty of Vigilance Law', 2017) have enacted extraterritorial legislation on these issues. Both these laws require companies meeting particular criteria (e.g. concerning company size and turnover) to report on labour conditions (UK) and potential environmental and social risks in their supply chains (FR). In 2021, the European Union will enact the Conflict Minerals Regulation, which requires EU companies active in the minerals sector to ensure they import particular minerals and metals from responsible and conflict-free sources only. However, the regulation proposed in Switzerland goes far beyond the regulations implemented in the UK, France and the EU, since it would cover both environmental and social risks, since it would not be restricted to a particular economic sector and finally, since it would apply to a larger share of companies with supply chains extending beyond Swiss borders (i.e. particular small and medium-sized firms as well).

As outlined above, the direct democratic institutional framework, in which this regulation (known as RBI) is proposed, is the so-called 'petition for a popular referendum' (German: Volksinitiative). By collecting 100,000 signatures within 18 months, Swiss citizens (and organisations) are permitted to initiate popular referenda on constitutional amendments. Hence, these referenda have the potential to create far-reaching competencies for government intervention – in the case of the RBI, in companies' business conduct. This particular petition has been submitted by an alliance of humanitarian and environmental civil society organisations in 2016. Their demands are outlined in Appendix Section A.1.1. However, since its submission the RBI has been stuck in Parliament without being voted upon to this day (for Swiss direct democratic institutions see Serdült, 2014).

The reason is that the Swiss Parliament has decided to draft a so-called 'indirect counter-proposal' (see above). The policy-making process, thus, has turned into a strategic game between the petitioners and the different chambers and committees inside the Swiss Parliament (see, e.g. Hofer et al, 2017). In the case of the RBI, both chambers of the Swiss Parliament opted to write a counter-proposal in November of 2017. However, they were unable to agree on the content of the counter-proposal to this day – with left and green parties supporting more stringent regulation, liberal and right-wing parties opposing it (see a timeline of negotiations below). Hence, as of now, a popular referendum on the RBI is still the most likely outcome.

- April 21, 2015: Responsible Business Initiative registered and starting to collect signatures
- October 10, 2016: Responsible Business Initiative submitted to federal chancellery with 120'418 signatures
- November 2017: Ständerat (upper chamber) committee opts to write an indirect counter-proposal
- December 2017: Nationalrat (lower chamber) committee decides against indirect counter-proposal
- February 2018: Nationalrat (lower chamber) committee reconsidering its decision, opts to write an indirect counter-proposal
- June 2018: Nationalrat (lower chamber) accepts indirect counter-proposal
- October 2018: Ständerat (upper chamber) committee decides to use sub-committee
- March 2019: Sub-committee result
- March 2019: Ständerat (upper chamber) rejects indirect counter-proposal
- March 2019: Nationalrat (lower chamber) committee maintains indirect counterproposal
- June 2019: Nationalrat (lower chamber) decides to maintain indirect counterproposal again
- December 2019: Ständerat (upper chamber) rejects indirect counter-proposal, agrees to have one final round of negotiations with Nationalrat (lower chamber).

- March 2020: Final round of negotiations between both chambers in Parliament: Decision indirect counter-proposal and its content must be reached.
- November 2020: Latest possible date for a popular referendum

A.2 Survey Instrument and Research Design

The survey questions used for this paper can be accessed in the replication materials, available at the Harvard Dataverse: https://doi.org/10.7910/DVN/OHNUEV.

A.2.1 Wording of the Experimental Vignettes (English Translation)

The following text was used to introduce respondents to the vignette task. Below the introductory paragraph, we list all the treatments (our translations from the German originals). The treatment 'titles' (not shown to respondents) are printed in **bold** letters.

"Swiss companies operating abroad sometimes cause damage to people and the environment. The risk of such damage can vary greatly from company to company. For example, it is often higher for Swiss companies that deal with raw materials (e.g. gold, copper, oil and gas, coffee, cotton). Such risks can be reduced by voluntary measures taken by the Swiss companies themselves or by government-set rules.

[screen-break]

Placebo text: The question of how risks should be reduced is a recurring topic of discussion in politics and society. In particular, there are different opinions on how Swiss companies should behave at home and abroad and whether rules should be established for companies.

Few firms, with high-risk firms, with NGO oversight: The Swiss private sector is already dealing with the issue. However, only a few Swiss companies have voluntarily committed themselves to protect people and the environment at their operating sites abroad to a much greater degree. Specifically, they have promised to issue a comprehensive yearly report on risks to people and the environment and according measures to reduce such risks. This report will be checked by an independent, not-for-profit organisation. The full report and the result of the verification will be published on the internet. Among the participating companies are most Swiss companies involved in commodities (such as gold, copper, oil and gas, coffee, cotton).

Many firms, no high-risk firms, without NGO mention: The Swiss private sector is already dealing with the issue. Most Swiss companies have voluntarily committed themselves to protect people and the environment at their operating sites abroad to a much greater degree. Specifically, they have promised to issue a comprehensive yearly report on risks to people and the environment and according measures to reduce such risks. The full report will be published on the internet.

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A.2.2 Sample and Survey Structure

On the introductory page of the survey, participants were informed about the purpose of the survey and guaranteed anonymity. At the end of the survey, the participants were provided with a debriefing statement, which read that certain information had to be strongly simplified for scientific purposes. Furthermore, the debriefing included a link to the Swiss administration's website, where official information about the survey's content with 'real world' political implications was available.

In the survey, participants first responded to questions relevant to the sampling strategy. They were then confronted with two experiments (experiment A and experiment B) in a randomised order. From now on, the experiment generating the data for this paper will be referred to as experiment **B**. Despite being related in terms of content (international environmental and human rights standards and regulation for Switzerlandbased MNEs), the two experiments differed on dependent and independent variables and on the tasks, participants were asked to perform – a vignette and a conjoint in experiment A, only a vignette in experiment B. All respondents were required to complete both experiments, however, we evenly randomised the order of the two experiments in order to control for unwanted carryover effects from the first experiment to the second. If participants were confronted with experiment A first before entering experiment B, these questions might have contaminated the responses to the experiment. We chose not to ask questions between the experiments since asking participants about their preferences between the experiments might have had different effects on the two. This, in turn, would have jeopardised the control introduced by the randomised order of the experiments. After having completed both experiments, the participants concluded the survey by responding to questions about environmental and political attitudes and a standard set of socio-demographic questions.

Appendix Table A.1 summarises the distribution of responses to a question measuring respondents' perceived ability to explain the content of the RBI to someone else. Given random assignment to either *experiment A first* or *experiment B first*, we would expect an even distribution of responses in Appendix Table A.1. This, however, is not the case – the chi-squared test strongly suggests that order assignment and responses are not independent. In particular, the table shows that individuals, who were confronted with experiment A first, deem themselves (at least 'maybe') more able to explain the content of the RBI to someone else. This indicates that the questions embedded in experiment A are likely to have had a content-related carryover effect on respondents' perceived level of information about the issue.

Therefore, we were forced to distinguish between a 'pure' and a 'full' sample in our data analysis, as exemplified by Appendix Table A.2. The pure sample was used for the data analysis reported in the main paper. It refers to the group of participants who responded to experiment B right at the beginning of the survey – the *experiment B first* group – where carryover effects are not an issue by design. Hence, these responses yield the most accurate estimates of our treatment effects. Accordingly, the full sample pools all respondents regardless of the order in which they were administered the survey components. The *experiment A first* group will from now on, be referred to as the 'contaminated' sample.

The carryover effect is documented in greater detail in the following: Appendix Tables A.3 and A.2 contain estimated effects of the pooled treatments compared to the placebo group. Specifically, A.2 shows the coefficient estimates for the pure sample in the left panel and the full sample in the right panel. We observe that across all dependent variables that

the estimated pooled treatment effect is less substantive in the full sample. The reason is that the full sample pools both the pure sample and the contaminated one. Appendix Table A.3 summarises the coefficient estimates for the contaminated sample, where we find that the effect of the pooled treatment is not significantly different from 0 on any dependent variables. Overall, it seems to be the case that by exposing respondents to information related to adverse social and environmental impacts of Swiss MNEs abroad and potential regulatory instruments to curb these impacts, experiment A has primed respondents towards regulation – particularly towards the RBI – and made them 'immune' to the treatments in experiment B related to voluntary measures by the private sector.

We can rule out that the differences between the pure and the contaminated sample have been primarily caused by a drop in the attentiveness of the participants. Excluding respondents based on the screening time of the treatments in experiment B does little in terms of correcting for the difference in results between the pure sample and the contaminated sample (see Appendix Table A.4).

In the following Sections of the Appendix, tables show results for the pure sample on the left panel (corresponding to the results reported in the main paper) and the full sample on the right panel. The coefficients always represent the estimates for the effects of the treatment relative to the placebo group.

 Table A.1: Would you deem yourself able to explain the content of the RBI to someone else?

	Exp. A first	Exp. B first
Maybe	582	496
No	506	875
Yes	358	193

Chi-squared: 13.3, p < 0.01.

			Pı	ıre sample					F	ull sample		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	Regulation pref.	VM sufficient	RBI rating	RBI yes share	RBI no share	RBI undecided share	Regulation pref.	VM sufficient	RBI rating	RBI yes share	RBI no share	RBI undecided share
Any voluntary corporate program=1	-0.13^{+}	0.17^{*}	-0.22^{*}	-0.06+	0.06^{*}	0.00	-0.12^*	0.16^{**}	-0.16*	-0.05^{+}	0.04^{*}	0.01
	(0.08)	(0.07)	(0.10)	(0.03)	(0.03)	(0.03)	(0.05)	(0.05)	(0.07)	(0.02)	(0.02)	(0.02)
Constant	5.11***	1.56**	5.73***	1.07***	-0.18	0.11	4.55***	2.08***	5.04^{***}	1.03***	-0.10	0.07
	(0.64)	(0.59)	(0.87)	(0.28)	(0.23)	(0.24)	(0.58)	(0.55)	(0.79)	(0.26)	(0.21)	(0.22)
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	1458.00	1422.00	1473.00	1474.00	1474.00	1474.00	2781.00	2714.00	2816.00	2818.00	2818.00	2818.00
r2_a	0.14	0.14	0.16	0.09	0.09	0.02	0.15	0.15	0.17	0.10	0.10	0.03
Control_mean	3.73	2.43	4.98	0.64	0.16	0.20	3.76	2.47	4.97	0.63	0.16	0.21
Control_sd	1.14	1.00	1.57	0.48	0.37	0.40	1.11	1.04	1.53	0.48	0.37	0.41

Table A.2: Pooled treatment effects

Linear regression of a pooled treatment group indicator on indicators of support for regulation (see model header). Standard errors displayed in parentheses. Placebo group mean and standard deviation displayed in bottom rows. Left panel regresses on 'pure' sample, i.e. sample that did not see another experiment beforehand. Right panel draws on all respondents. Control variables are used where indicated (gender, age group, self-evaluation of personal economic situation, education level, employment status, rurality, language, region of Switzerland, self-placement on left-right scale, party ID, and self-stated usual voting frequency). * (+,**,***) indicates p < 0.05 (0.1, 0.01, 0.001)

Table A.3: Pooled treatment effect in the co	ontaminated sample
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			D ep en de	ent variable:		
	Regulation pref.	VM sufficient	RBI rating	RBI yes share	RBI no share	RBI undecided share
	(1)	(2)	(3)	(4)	(5)	(6)
Any voluntary corporate programme=1	-0.123	0.120	-0.064	-0.022	0.006	0.016
	(0.076)	(0.074)	(0.103)	(0.034)	(0.027)	(0.029)
Observations	1,318	1,289	1,338	1,339	1,339	1,339
Adjusted R ²	0.152	0.162	0.162	0.102	0.108	0.050
Residual Std. Error	1.010 (df = 1276)	0.986 (df = 1247)	1.389 (df = 1296)	0.459 (df = 1297)	$0.358 (\mathrm{df} = 1297)$	$0.391 \ (df = 1297)$

Linear regression of a pooled treatment group indicator on indicators of support for regulation (see model header) in the contaminated sample, i.e. the sample which did see another experiment beforehand. Standard errors displayed in parentheses. Control variables are used where indicated (gender, age group, self-evaluation of personal economic situation, education level, employment status, rurality, language, region of Switzerland, self-placement on left-right scale, party ID, and self-stated usual voting frequency)). * (., **, ***) indicates p < 0.05 (0.1, 0.01, 0.001)

Table A.4: Pooled treatment effect in the contaminated sample controlling for screening time

			Depende	ent variable:		
	Regulation pref.	VM sufficient	RBI rating	RBI yes share	RBI no share	RBI undecided share
	(1)	(2)	(3)	(4)	(5)	(6)
Any voluntary corporate programme=1	-0.152^{*} (0.086)	$egin{array}{c} 0.105 \ (0.082) \end{array}$	-0.054 (0.119)	-0.046 (0.038)	$\begin{array}{c} 0.006 \\ (0.030) \end{array}$	$\begin{array}{c} 0.040 \\ (0.032) \end{array}$
Observations Adjusted R ²	$1,092 \\ 0.142$	$1,065 \\ 0.169$	$1,101 \\ 0.150$	$1,101 \\ 0.091$	$1,101 \\ 0.109$	$1,101 \\ 0.036$
Residual Std. Error	$1.009 \ (df = 1050)$	$0.954 \ (df=1023)$	$1.411 \ (\mathrm{df} = 1059)$	$0.454~({ m df}=1059)$	$0.353~({ m df}=1059)$	$0.376~({\rm df}=1059)$

Linear regression of a pooled treatment group indicator on indicators of support for regulation (see model header) in the contaminated sample, i.e. the sample which did see another experiment beforehand. Individuals 40% below the median experiment B treatment screening time in the sample have been excluded. Standard errors displayed in parentheses Control variables are used where indicated (gender, age group, self-evaluation of personal economic situation, education level, employment status, rurality, language, region of Switzerland, self-placement on left-right scale, party ID, and self-stated usual voting frequency)). * (.,**,***) indicates p < 0.05 (0.1, 0.01, 0.001)

A.2.3 **Properties of the Sampled Population**

As we draw on a quota sample, our survey is representative for the general population of Switzerland only with respect to the interlocked quotas on age and gender as well as quotas on education and regional provenance of the participants. However, as can be seen from Figure A.1, when comparing the distribution of a core non-quota characteristic (environmental concern) from our surveyed population to the distribution of the same variable in a dual-mode representative survey fielded as well in 2018 (Swiss Environmental Panel, first wave⁹), we observe a highly comparable distribution.

⁹ See https://ib.ethz.ch/research/sep.html for information on access to the data.

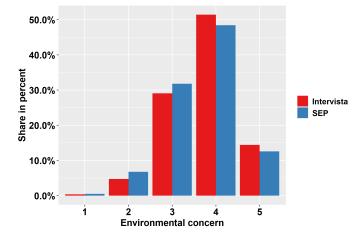


Figure A.1: The blue bars (N=4813) show the distribution of the environmental concern scale (Diekmann and Preisendörfer, 2003) as measured in the first wave of the Swiss Environmental Panel (SEP), a 2018 dual-mode survey based on a random address sample of the Swiss population drawn by the Federal Statistical Office (FSO). In comparison, the red bars (N=3010), indicate the distribution of environmental concern among participants in our quota sample drawn from Intervista's online panel. A global test of the equality of distribution functions (Kaplan, 2019) shows that both functions likely do not differ statistically (p-value 0.708).

A.3 Subgroup Analyses

The following Appendix Section presents subgroup analyses for the item "RBI support" (item wording: 'If you were to vote today on the Responsible Business Initiative, how would you vote? I would accept it/reject it/don't know.'). We report subgroup effects for several relevant characteristics and attitudes we enquired from respondents, from the political, economic and social realm as well as for demographics. These variables present a standard set of potential political, social, economic and demographic mediators of the treatment effect. As we did not theorize and pre-register any hypothesised relationships between these covariates and our treatment effects, we refrain from strong interpretations. Additionally, as we did not experimentally manipulate the mediating variables, we only observe correlational evidence. Still, these patterns are informative for future research, as it allows to develop hypotheses on which particular voters are moved by voluntary corporate programmes and why this might be the case.

We report subgroup effects by several socio-political covariates:

- Voting probability (high: self-reported usual participation in 4 out of 4 annual election days; low: 0-3), Appendix Table A.5 and Appendix Figure A.2.
 - Self-reported high-probability voters respond much more strongly to the corporate behaviour vignettes, differences are significant on the 0.1%-level for the many/few, risk, NGO and on the 10%-level for the many, NGO-vignette. These respondents also show a higher baseline support level for the RBI.
- Political interest (high: scores 4, 5; low: scores 1-3 on a 5-point Likert scale), Appendix Figure A.3.
 - High or low self-reported political interest does not differentiate reactions to vignettes.
- Prior knowledge of RBI initiative ("Have you ever heard of this initiative or read anything about it? [Yes; No; Don't know]"), Appendix Table A.6 and Appendix Figure A.4
 - Starting from a comparable baseline support level, the subgroup of individuals with prior exposure to the RBI (25% of respondents report "having heard" of the RBI, see Appendix Table A.6)) reacts very similarly to the experimental vignettes. There is one notable exception, though: While the *many*-vignette decreases demand for regulation among those unfamiliar with the RBI, it increases this demand (significant at the 10%-level; difference between groups significant at the 1%-level) for the heaving-heard-group. This raises the question, why prior exposure might lead to differing responses. As knowledge was not experimentally assigned, one potential reason are differing background characteristics of respondents. Whether relatively weak experimental vignettes

can also be perceived as shallow, given more knowledge is an interesting additional question for future research. While we tested for these mechanisms ourselves (see Appendix Table A.10), our tests do not have enough power to meaningfully differentiate responses (although, e.g. the vignettes not including high-risk firms and NGO oversight see slightly higher evaluations of being "window-dressing"). We hence recommend future research in this direction, at best exploiting experimental variation in knowledge of the issue.

- Environmental concern (High/low: Above/below median score),¹⁰ Appendix Figure A.5.)
 - Respondents with high environmental concern respond more strongly to the corporate behaviour vignettes, although only the reaction to the *few*, *risk*, *NGO*-vignette is significantly different on the 10%-level. Baseline support levels are much higher in the respondent subgroup with high environmental concern.
- Political ideology (Left: self-reported score of 0-5; Right: of 6-10 on an 11-point Likert scale), Appendix Figure A.6.
 - Political ideology does not differentiate reactions significantly, although in tendency left-leaning respondents seem to be more in support for vignettes including NGO oversight, while right-leaning respondents react particularly strong to the *many*, *risk*, *NGO* -vignette. Baseline support for the RBI is higher among left-leaning respondents.

We as well report subgroup effects by several relevant demographic, economic, social and cultural characteristics of respondents, namely:

- Age (above/below median age), Appendix Figure A.7.
 - Differentiating respondents by above/below median age does not meaningfully differentiate respondents. Note that additional analyses (available on request) revealed that in tendency the very young (below 30) and very old (above 60) age group reacted more strongly to the treatments.
- Gender (binary indicator variable, 1: female; 0: male), Appendix Figure A.8.
 - Females react more strongly to most of the presented vignettes, although this difference is significant on the 5%-level only for the many, NGO-vignette. Females also show stronger baseline support for the RBI.
- Education (1: Higher education, i.e. university; 0: else), Appendix Figure A.9.

¹⁰ Environmental concern is an additive index from a scale developed by Diekmann and Preisendörfer (2003).

- Respondents with lower education react more strongly to most of the presented vignettes, although this difference is significant on the 10%-level only for the *few*, *risk*, NGO-vignette.
- Income (Above/below median income (9000 CHF)), Appendix Figure A.10.
 - Respondents with lower income react more strongly to the presented vignettes, this difference is significant on the 5%-level for the *few*, *risk*, *NGO* and the *many*, *risk*-vignette, and significant on the 10%-level for the *many*-vignette. These respondents also show stronger baseline support for the RBI.
- Employment ((Self-)employed vs. rest), Appendix Figure A.11.
 - Respondents who are not (self-)employed react more strongly to the presented vignettes, although this difference is significant on the 10%-level only for the many, NGO-vignette. These respondents also show stronger baseline support for the RBI.
- Language/culture (German speaking vs. Italian/French speaking, Appendix Figure A.12.
 - Language/culture does not meaningfully differentiate respondents.
- Settlement type (Respondent from urban settlement vs. rural/agglomeration), Appendix Figure A.13.
 - Respondents who are from rural areas/agglomeration react more strongly to the presented vignettes, although this difference is significant on the 5%-level only for the many, risk-vignette.

Finally, we differentiate the sample by attentiveness to the survey:

- Time to read treatment/placebo screen text on voluntary measures (above/below median time), Appendix Figure A.14.
 - Respondents below the median react more strongly to the presented vignettes, although this difference is significant on the 10%-level only for the many, risk, NGO-vignette.

		High voting pro	babilty		Low voting pro	bability
	(1)	(2)	(3)	(4)	$(5)^{-}$	(6)
	RBI yes share	RBI no share	RBI undecided share	RBI yes share	RBI no share	RBI undecided share
Few, risk, NGO	-0.17***	0.13^{**}	0.05	0.02	-0.07	0.05
	(0.05)	(0.04)	(0.04)	(0.08)	(0.06)	(0.07)
Many	-0.05	0.06	-0.01	-0.02	-0.05	0.07
	(0.05)	(0.04)	(0.04)	(0.08)	(0.06)	(0.07)
Many, NGO	-0.09+	0.05	0.04	0.06	-0.04	-0.02
	(0.05)	(0.04)	(0.04)	(0.08)	(0.06)	(0.07)
Many, risk	-0.04	0.03	0.01	0.02	-0.06	0.04
	(0.05)	(0.04)	(0.04)	(0.08)	(0.06)	(0.07)
Many, risk, NGO	-0.17***	0.14^{***}	0.03	0.07	-0.01	-0.06
	(0.05)	(0.04)	(0.04)	(0.08)	(0.06)	(0.07)
Constant	0.69^{***}	0.14^{***}	0.17^{***}	0.52^{***}	0.21^{***}	0.27^{***}
	(0.04)	(0.03)	(0.03)	(0.06)	(0.04)	(0.05)
N	1085.00	1085.00	1085.00	478.00	478.00	478.00
r2_a	0.01	0.01	-0.00	-0.01	-0.01	0.00
Control_mean	0.66	0.17	0.17	0.55	0.15	0.30
Control sd	0.47	0.37	0.38	0.50	0.36	0.46

Table A.5: How voluntary firm behaviour affects public support for the RBI for different levels of political participation

Linear regression of treatment group indicators on indicators of support for the RBI (see model header). Standard errors displayed in parentheses. Placebo group mean and standard deviation displayed in bottom rows. Control variables are used where indicated (gender, age group, self-evaluation of personal economic situation, education level, employment status, rurality, language, region of Switzerland, self-placement on left-right scale, and party ID). * (+, **, ***) indicates p < 0.05 (0.1, 0.01, 0.001)

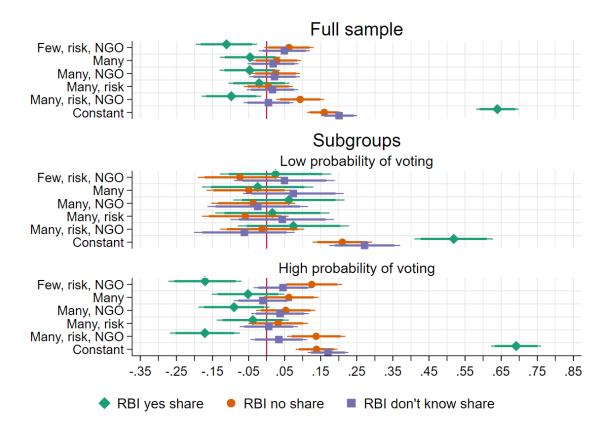


Figure A.2: Full sample and subgroup-analysis (subgroup indicated in header, as defined in the beginning of Appendix Section A.3, for treatment effect estimates of vignette conditions relative to the placebo group on outcome variable 'RBI support'. Constant shows baseline levels of yes/no/don't know shares. Whiskers report 95% and 90% confidence intervals.

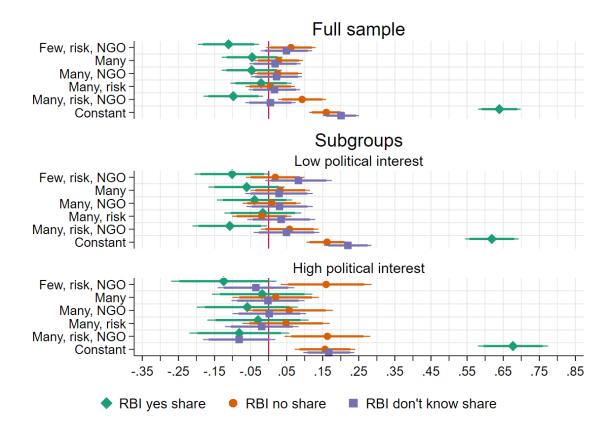


Figure A.3: Full sample and subgroup-analysis (subgroup indicated in header, as defined in the beginning of Appendix Section A.3, for treatment effect estimates of vignette conditions relative to the placebo group on outcome variable 'RBI support'. Constant shows baseline levels of yes/no/don't know shares. Whiskers report 95% and 90% confidence intervals.

Have heard of RBI? Can explain RBI? freq pct cumpct freq pct cumpct Yes 38424.5524.5510427.0827.08No 111571.2995.849451.5624.48Don't know 654.16100.0018648.44100.00Total 100.00 384 100.001564

Table A.6: Knowledge on the Responsible Business Initiative

Raw distribution for questions 1) "Swiss citizens are expected to vote on the popular initiative 'for responsible companies' (Responsible Business Initiative) in the next 12 months. Have you ever heard of this initiative or read anything about it? [Yes; No; Don't know] and 2) "Would you be able to describe to another person what this initiative is about?" [Yes; No; Don't know] for respondents who report having heard/read about the RBI.

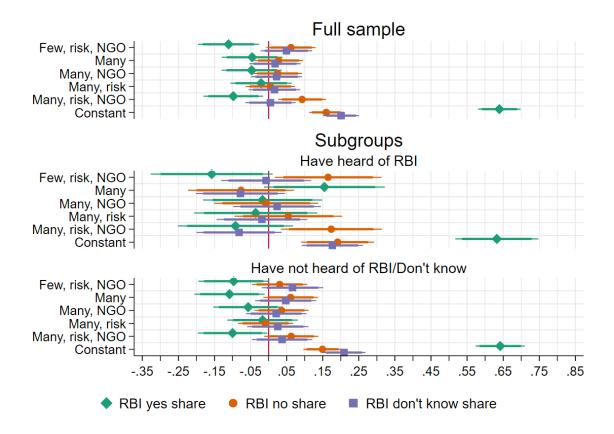


Figure A.4: Full sample and subgroup-analysis (subgroup indicated in header, as defined in the beginning of Appendix Section A.3, for treatment effect estimates of vignette conditions relative to the placebo group on outcome variable 'RBI support'. Constant shows baseline levels of yes/no/don't know shares. Whiskers report 95% and 90% confidence intervals.

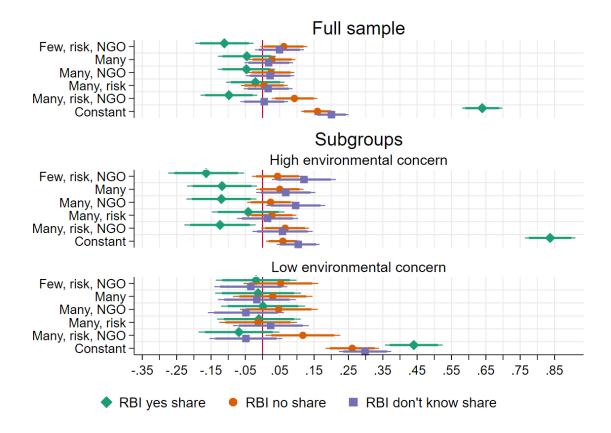


Figure A.5: Full sample and subgroup-analysis (subgroup indicated in header, as defined in the beginning of Appendix Section A.3, for treatment effect estimates of vignette conditions relative to the placebo group on outcome variable 'RBI support'. Constant shows baseline levels of yes/no/don't know shares. Whiskers report 95% and 90% confidence intervals.

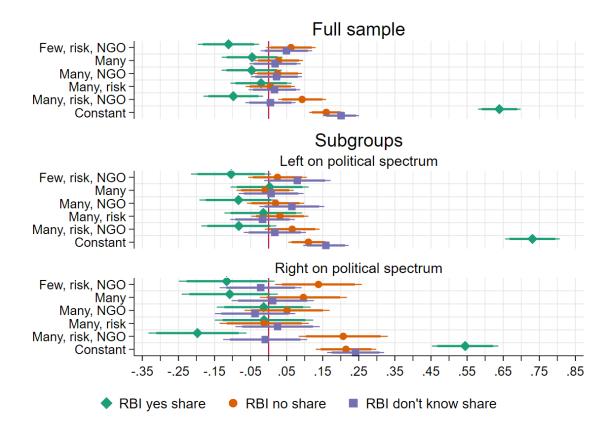


Figure A.6: Full sample and subgroup-analysis (subgroup indicated in header, as defined in the beginning of Appendix Section A.3, for treatment effect estimates of vignette conditions relative to the placebo group on outcome variable 'RBI support'. Constant shows baseline levels of yes/no/don't know shares. Whiskers report 95% and 90% confidence intervals.

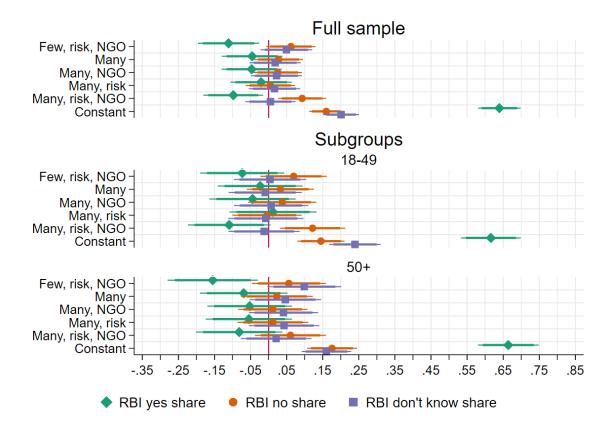


Figure A.7: Full sample and subgroup-analysis (subgroup indicated in header, as defined in the beginning of Appendix Section A.3, for treatment effect estimates of vignette conditions relative to the placebo group on outcome variable 'RBI support'. Constant shows baseline levels of yes/no/don't know shares. Whiskers report 95% and 90% confidence intervals.

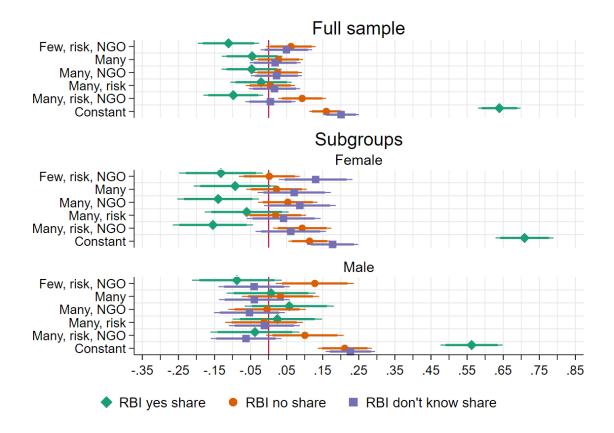


Figure A.8: Full sample and subgroup-analysis (subgroup indicated in header, as defined in the beginning of Appendix Section A.3, for treatment effect estimates of vignette conditions relative to the placebo group on outcome variable 'RBI support'. Constant shows baseline levels of yes/no/don't know shares. Whiskers report 95% and 90% confidence intervals.

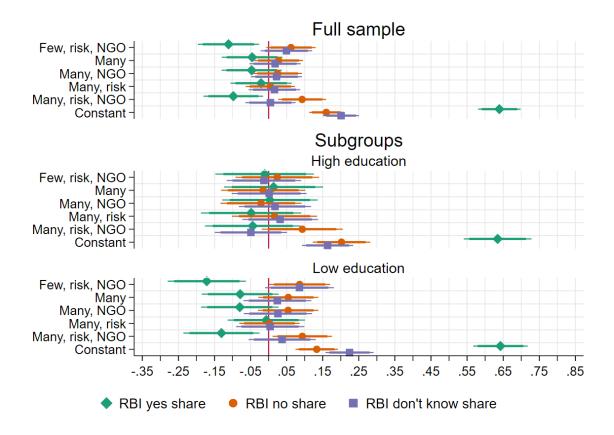


Figure A.9: Full sample and subgroup-analysis (subgroup indicated in header, as defined in the beginning of Appendix Section A.3, for treatment effect estimates of vignette conditions relative to the placebo group on outcome variable 'RBI support'. Constant shows baseline levels of yes/no/don't know shares. Whiskers report 95% and 90% confidence intervals.

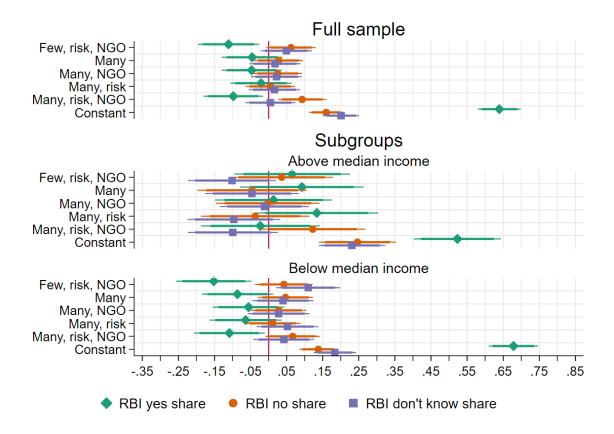


Figure A.10: Full sample and subgroup-analysis (subgroup indicated in header, as defined in the beginning of Appendix Section A.3, for treatment effect estimates of vignette conditions relative to the placebo group on outcome variable 'RBI support'. Constant shows baseline levels of yes/no/don't know shares. Whiskers report 95% and 90% confidence intervals.

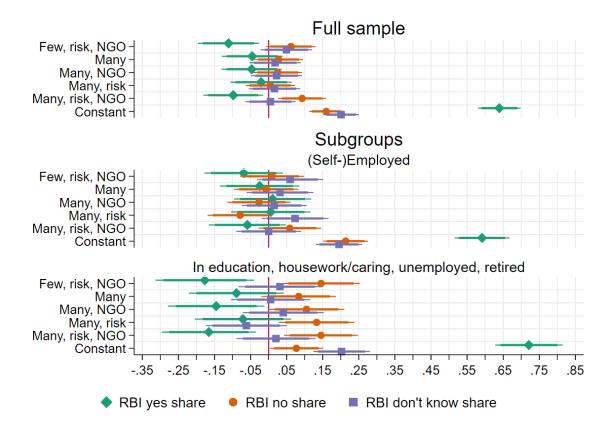


Figure A.11: Full sample and subgroup-analysis (subgroup indicated in header, as defined in the beginning of Appendix Section A.3, for treatment effect estimates of vignette conditions relative to the placebo group on outcome variable 'RBI support'. Constant shows baseline levels of yes/no/don't know shares. Whiskers report 95% and 90% confidence intervals.

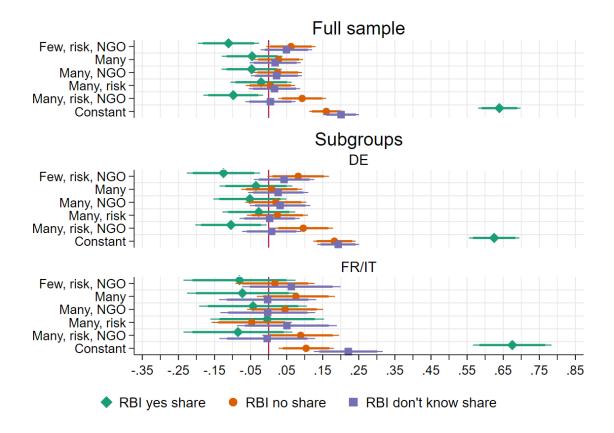


Figure A.12: Full sample and subgroup-analysis (subgroup indicated in header, as defined in the beginning of Appendix Section A.3, for treatment effect estimates of vignette conditions relative to the placebo group on outcome variable 'RBI support'. Constant shows baseline levels of yes/no/don't know shares. Whiskers report 95% and 90% confidence intervals.

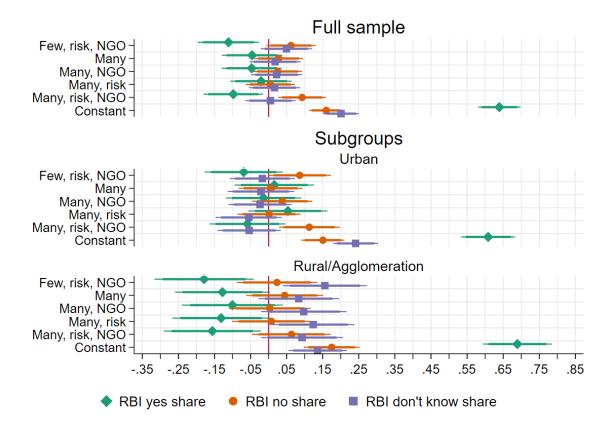


Figure A.13: Full sample and subgroup-analysis (subgroup indicated in header, as defined in the beginning of Appendix Section A.3, for treatment effect estimates of vignette conditions relative to the placebo group on outcome variable 'RBI support'. Constant shows baseline levels of yes/no/don't know shares. Whiskers report 95% and 90% confidence intervals.

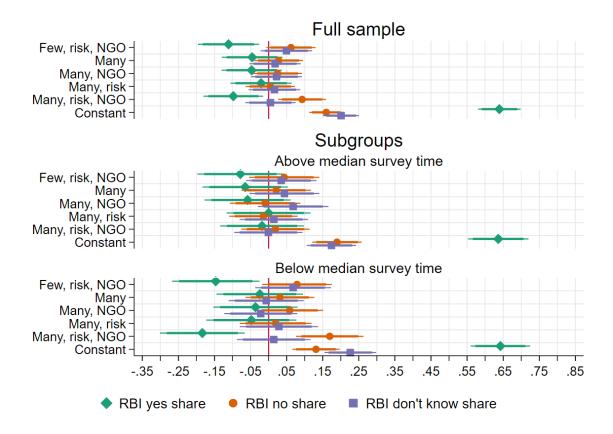


Figure A.14: Full sample and subgroup-analysis (subgroup indicated in header, as defined in the beginning of Appendix Section A.3, for treatment effect estimates of vignette conditions relative to the placebo group on outcome variable 'RBI support'. Constant shows baseline levels of yes/no/don't know shares. Whiskers report 95% and 90% confidence intervals.

A.4 Treatment Mechanisms

Given our main findings, the following section addresses why some vignettes might move respondent opinions more compared to others. Appendix Table A.7 reports results from a model including control variables, Appendix Table A.8 shows, for comparison, that our results hold in models without control variables as well. Finally, Appendix Table A.9 displays results for the particular subgroup of individuals with/without high likelihood of voting (as discussed in the Section 4.2.3 of the main text) and Appendix Table A.10 for the particular subgroup of individuals with/without prior knowledge of the RBI (as discussed in Appendix Section A.3).

These tables are structured as follows: Model 1 (6) has as dependent variable the question of whether voluntary corporate initiatives are merely green window-dressing – hence, making the firms appear environment-friendly, but not addressing potential issues in a meaningful manner. In tendency, the vignettes including both high-risk firms and NGO oversight move respondents to disagree here. This could be one explanation of why the vignettes work: Where risk-firms and oversight are included, overall corporate measures are perceived to be serious and credible. Note, however, that coefficients do not differ significantly between vignettes and are significantly different from zero in only one case.

Model 2 (7) measures the effects of our treatments on the perception that voluntary corporate initiatives are costly for corporations. This is consistently so (and coefficients are statistically different from zero at the 5% (model 2 and model 7) level) where only a few firms engage in these measures.

Model 3 (8) tests whether participants perceive voluntary initiatives to indicate that corporations care a lot about the protection of people and the environment abroad. Where respondents receive the *few*, *risk*, *NGO*-vignette, they are significantly more likely to interpret voluntary measures in this light.

Model 4 (9) tests whether participants perceive voluntary initiatives to be proof that corporations cause social and environmental harm. In tendency, coefficients are positive but do only for one coefficient reach conventional levels of statistical significance.

Finally, model 5 (10) shows whether participants think that voluntary initiatives prevent societal bureaucratic costs depending on the treatment conditions. In tendency, as soon as 'many' firms are included in the vignette, coefficients are positive. Again, they do only for some vignettes reach conventional levels of statistical significance.

Overall, results point into a direction where voluntary measures are a stronger signal when both risk-firms and NGO oversight are included, albeit costly for companies. This is in line with the findings mentioned above. However, both a small coefficient size and a lack of statistical power do not allow us to draw definite conclusions here.

			Pure sam	ple				Full samp	ole	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Window dressing	VM costly	Signal caring firms	Indicate damage	Prevent regulatory costs	Window dressing	VM costly	Signal caring firms	Indicate damage	Prevent regulatory costs
Few, risk, NGO	-0.04	0.19^{*}	0.23^{*}	-0.00	-0.05	-0.03	0.20^{**}	0.13^{*}	-0.03	-0.02
	(0.10)	(0.10)	(0.10)	(0.10)	(0.10)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
Many	0.02	-0.01	-0.06	0.02	0.03	0.04	0.01	-0.04	0.03	0.11
	(0.10)	(0.10)	(0.09)	(0.10)	(0.10)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
Many, NGO	0.14	0.14	-0.02	0.15	0.05	-0.06	0.04	0.04	0.09	0.07
	(0.10)	(0.10)	(0.09)	(0.10)	(0.10)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
Many, risk	0.12	0.29**	0.07	0.20^{*}	0.08	-0.08	0.16^{*}	0.07	0.05	0.18^{*}
	(0.10)	(0.10)	(0.09)	(0.10)	(0.10)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
Many, risk, NGO	-0.04	0.14	0.05	0.07	0.09	-0.12+	0.08	0.03	0.01	0.04
	(0.09)	(0.09)	(0.09)	(0.10)	(0.10)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
Constant	4.00***	4.05***	2.34***	4.89***	3.17^{***}	3.69***	4.11***	2.31***	4.07***	2.78***
	(0.62)	(0.61)	(0.61)	(0.62)	(0.63)	(0.58)	(0.56)	(0.56)	(0.58)	(0.58)
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	1404.00	1367.00	1443.00	1369.00	1361.00	2674.00	2618.00	2761.00	2616.00	2602.00
r2_a	0.06	0.05	0.05	0.09	0.03	0.04	0.06	0.05	0.06	0.03
Control_mean	3.11	3.06	3.41	2.84	3.32	3.12	3.14	3.52	2.82	3.30
Control sd	1.10	0.96	1.12	1.15	1.07	1.09	1.03	1.09	1.09	1.04

Table A.7: Mechanisms by which voluntary firm behaviour affects public support

Linear regression of treatment group indicators on indicators of perceptions of voluntary initiatives. Standard errors displayed in parentheses. Placebo group mean and standard deviation displayed in bottom rows. Left panel regresses on 'pure' sample, i.e. sample that did not see another experiment beforehand. Right panel draws on all respondents. Control variables are used where indicated (gender, age group, self-evaluation of personal economic situation, education level, employment status, rurality, language, region of Switzerland, self-placement on left-right scale, party ID, and self-stated usual voting frequency).

* (+, **, ***) indicates p < 0.05 (0.1, 0.01, 0.001)

			Pure sam	ple				Full samp	ole	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Window dressing	VM costly	Signal caring firms	Indicate damage	Prevent regulatory costs	Window dressing	VM costly	Signal caring firms	Indicate damage	Prevent regulatory costs
Few, risk, NGO	-0.05	0.16^{+}	0.19^{*}	0.01	-0.08	-0.01	0.16^{*}	0.09	-0.02	-0.05
	(0.10)	(0.09)	(0.09)	(0.10)	(0.09)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
Many	-0.02	0.00	-0.09	0.03	0.01	0.04	-0.02	-0.09	0.07	0.06
	(0.10)	(0.09)	(0.09)	(0.10)	(0.09)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
Many, NGO	0.09	0.11	-0.04	0.12	0.03	-0.05	- 0.00	-0.00	0.10	0.01
	(0.09)	(0.09)	(0.09)	(0.10)	(0.09)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
Many, risk	0.07	0.24^{*}	0.05	0.18^{+}	0.08	-0.10	0.11^{+}	0.03	0.06	0.13^{+}
	(0.10)	(0.09)	(0.09)	(0.10)	(0.10)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
Many, risk, NGO	-0.05	0.14	0.00	0.08	0.06	-0.10	0.05	-0.03	0.03	-0.01
	(0.09)	(0.09)	(0.09)	(0.10)	(0.09)	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
Constant	3.11***	3.06***	3.41^{***}	2.84***	3.32***	3.12***	3.14^{***}	3.52***	2.82***	3.30***
	(0.07)	(0.07)	(0.06)	(0.07)	(0.07)	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)
N	1476.00	1437.00	1524.00	1437.00	1429.00	2829.00	2774.00	2935.00	2769.00	2751.00
r2_a	-0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	-0.00	0.00
Control_mean	3.11	3.06	3.41	2.84	3.32	3.12	3.14	3.52	2.82	3.30
Control sd	1.10	0.96	1.12	1.15	1.07	1.09	1.03	1.09	1.09	1.04

Table A.8: Mechanisms by which voluntary firm behaviour affects public opinion - results without control variables

Linear regression of treatment group indicators on indicators of perceptions of voluntary corporate initiatives. Standard errors displayed in parentheses. Placebo group mean and standard deviation displayed in bottom rows. Left panel regresses on "pure" sample, i.e. sample that did not see another experiment beforehand. Right panel draws on all respondents.

* (+, **, ***) indicates p < 0.05 (0.1, 0.01, 0.001)

			High voting pro	obability				Low voting pro	bability	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(1 0)
	Window dressing	VM costly	Signal caring firms	Indicate damage	Prevent regulatory costs	Window dressing	VM costly	Signal caring firms	Indicate damage	Prevent regulatory costs
Few, risk, NGO	-0.18	0.31^{**}	0.29*	-0.08	-0.02	0.27	-0.05	0.14	0.16	0.00
	(0.12)	(0.12)	(0.12)	(0.12)	(0.12)	(0.18)	(0.18)	(0.17)	(0.18)	(0.19)
Many	-0.02	0.05	-0.09	-0.05	0.08	0.12	-0.08	0.01	0.15	0.01
	(0.12)	(0.12)	(0.12)	(0.12)	(0.12)	(0.17)	(0.17)	(0.16)	(0.18)	(0.18)
Many, NGO	0.05	0.15	-0.01	0.13	0.07	0.30^{+}	0.08	-0.02	0.12	0.02
	(0.12)	(0.11)	(0.11)	(0.12)	(0.11)	(0.17)	(0.18)	(0.17)	(0.18)	(0.19)
Many, risk	0.11	0.34**	0.09	0.17	0.07	0.12	0.23	-0.05	0.32^{+}	0.14
	(0.12)	(0.12)	(0.12)	(0.12)	(0.12)	(0.18)	(0.18)	(0.17)	(0.19)	(0.19)
Many, risk, NGO	-0.04	0.19^{+}	0.00	0.01	0.12	-0.04	0.08	0.14	0.21	0.02
	(0.11)	(0.11)	(0.11)	(0.11)	(0.11)	(0.17)	(0.18)	(0.17)	(0.18)	(0.18)
Constant	4.69***	3.60***	2.59***	4.97***	2.84***	2.88**	3.95***	1.93^{+}	5.06***	2.72*
	(0.79)	(0.78)	(0.78)	(0.78)	(0.79)	(1.09)	(1.11)	(1.07)	(1.14)	(1.17)
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	997.00	977.00	1025.00	975.00	968.00	407.00	390.00	418.00	394.00	393.00
r2_a	0.09	0.07	0.06	0.11	0.04	0.02	0.01	0.05	0.07	0.01
Control_mean	3.16	3.01	3.39	2.92	3.32	2.99	3.20	3.47	2.67	3.33
Control sd	1.15	0.98	1.17	1.20	1.10	0.97	0.92	0.98	1.03	0.99

Table A.9: Mechanisms by which voluntary firm behaviour affects public opinion - high and low probability of voting group

Linear regression of treatment group indicators on indicators of perceptions of voluntary corporate initiatives. Standard errors displayed in parentheses. Placebo group mean and standard deviation displayed in bottom rows. Left (right) panel regresses within the "high (low) voting probability" sample. All results for respondents from the "pure sample", i.e. sample that did not see another experiment beforehand. * (+,*,***) indicates p < 0.05 (0.1, 0.01, 0.001)

			Not having hear	d of RBI				Having heard	of RBI	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Window dressing	VM costly	Signal caring firms	Indicate damage	Prevent regulatory costs	Window dressing	VM costly	Signal caring firms	Indicate damage	Prevent regulatory costs
Few, risk, NGO	-0.09	0.14	0.18	0.12	0.05	0.13	0.18	0.36^{+}	-0.26	-0.31+
	(0.11)	(0.12)	(0.11)	(0.12)	(0.12)	(0.19)	(0.18)	(0.18)	(0.19)	(0.19)
Many	-0.03	0.02	-0.08	0.02	0.09	0.22	-0.16	-0.04	0.02	-0.27
	(0.11)	(0.11)	(0.11)	(0.11)	(0.11)	(0.19)	(0.18)	(0.19)	(0.19)	(0.19)
Many, NGO	0.09	0.16	- 0. 05	0.09	0.08	0.22	0.04	0.10	0.21	0.01
	(0.11)	(0.11)	(0.11)	(0.11)	(0.11)	(0.19)	(0.18)	(0.18)	(0.19)	(0.19)
Many, risk	0.02	0.29^{*}	0.01	0.30**	0.11	0.42^{*}	0.20	0.18	0.09	0.00
	(0.11)	(0.11)	(0.11)	(0.11)	(0.11)	(0.19)	(0.19)	(0.19)	(0.19)	(0.19)
Many, risk, NGO	-0.09	0.15	0.08	0.15	0.23^{*}	0.05	0.01	0.03	-0.22	-0.25
	(0.11)	(0.11)	(0.11)	(0.11)	(0.11)	(0.18)	(0.18)	(0.18)	(0.18)	(0.18)
Constant	3.55***	3.75***	2.86***	4.14***	3.50***	4.93***	5.00***	1.90	7.40***	3.04^{*}
	(0.74)	(0.76)	(0.74)	(0.75)	(0.76)	(1.27)	(1.20)	(1.26)	(1.26)	(1.26)
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
N	978.00	951.00	1014.00	958.00	945.00	426.00	416.00	429.00	411.00	416.00
r2_a	0.05	0.02	0.03	0.08	0.03	0.13	0.15	0.08	0.17	0.08
Control_mean	3.13	3.10	3.48	2.73	3.27	3.07	2.97	3.25	3.11	3.46
Control_sd	1.04	0.93	1.09	1.10	1.03	1.24	1.05	1.17	1.24	1.16

Table A.10: Mechanisms by which voluntary firm behaviour affects public opinion - respondents report (not) having heard of the RBI

Linear regression of treatment group indicators on indicators of perceptions of voluntary corporate initiatives. Standard errors displayed in parentheses. Placebo group mean and standard deviation displayed in bottom rows. Left (right) panel regresses within the group of respondents who report "(not) having heard" of the RBI. All results for respondents from the "pure sample", i.e. sample that did not see another experiment beforehand. * (+,*,***) indicates p < 0.05 (0.1, 0.01, 0.001)

A.5 Robustness Tests

The following Appendix Section reports on robustness tests we conducted.

First of all, adjusting for covariates (including control variables) makes sense in our case. We checked for the balance of means in covariates between the placebo and our five treatment groups. Although we did not find a clear pattern of imbalances in the distribution of covariates, as was expected, some variables show significant differences despite the random assignment of respondents to the treatment conditions. We three draw on models with control variables for the 'pure' sample as main specifications and report these results in the main text. Below, we provide full comparisons of the results with (included in Section 4 of the main paper) and without control variables in tabular form – see Appendix Tables A.12 for the models with control variables and Appendix Table A.13 for the models without control variables. Given the carryover effects observed between the different parts of the survey, we will focus on the comparison of the models reported in the left panel (models 1 to 6) of Appendix Tables A.12 and Appendix Table A.13 labelled as 'pure sample' when interpreting. For details on the distinction between 'pure' and 'full' sample, see Appendix Section A.2.2.

Model 1 (in both tables) estimates treatment effects on the dependent variable whether citizens would want more regulation of corporate behaviour abroad. The results do not differ substantively between the estimations with and without control variables. We observe a slightly (0.08 on a 5-point Likert scale) stronger effect (also of higher statistical significance) on the many, risk, NGO-vignette in the model with control variables.

Model 2 (in both tables) uses the statement that voluntary measures are sufficient to reduce environmental and social risks abroad as the dependent variable. Coefficients are statistically significantly different from zero for all vignettes except the *many*-vignette with and without control variables. Coefficients in the control variables model only differ by small amounts ranging from 0.01 to 0.02 on a 5-point Likert scale from the coefficients in the model without control variables.

Model 3 (in both tables) shows whether respondents rate the RBI differently depending on the treatment conditions (see also: A.16. With and without control variables, the *few*, *risk*, *NGO* and the *many*, *risk*, *NGO* are the only models to induce statistically significant effects in attitudes towards the RBI. We observe a difference between the two models on the *many*, *risk*, *NGO*-vignette and the *few*, *risk*, *NGO*-vignette (0.12 and 0.05 on a 7-point Likert scale respectively).

Models 4 to 6 (in both tables) summarise the effect of our vignettes on whether participants would accept/reject the RBI or whether they do not know yet. Coefficient sizes are almost identical with and without control variables, the differences amounting to 0.03 at most. Statistical significance is increased for some coefficients in the model with control variables.

Table A.11: Balance tests for placebo group vs. five voluntary measures treatment
groups

group_tabl	C/mean 0.19	T/mean 0.23	Diff-In-Means	10 N C	N T	C/mean 0.19	T/m ran 0.19	Diff-In-Menne/s	- N C	N T	C mean 0.19	T/mean 0.17	Diff-In-Means/s	r N.C.	N T 497	C/mean 0.19	T/m ran 0, 18	Diff-In-Means/s	101	N T 497	C/m.ran 0.19	T mean 0.2.2	Diff-In Means/ a	• N C	N 1
group_tabl	0.26	0.2.8	0.03	101		0.26	0.25	0.00	105		0.26	0.27	0.02		497	026	0.16	0.00	101	497	0.26	0.2.6	0.03	101	
group_tab3	0.2.8	027	0.03	2.02		0.2.8	0.2.8	0.03	105	504	0.2.8	0.30	0.03	101		0.2.8	0.18	0.03	101	497	0.2.8	0.2.4	0.03	101	
group tab4	0.27	024	0.03		101	0.27	0.2.8	-0.01		204	027	0.27	0.03	101		0.2.7	0,28	0.03	101	497	0.27	028	0.03	101	
cnum tabl	0,00	0.00	0.03	101		0.00	0,00	0.03	105	104	0,00	0,00	0.03	101	497	0.00	0.00	0.03	101	497	0.00	0,00	0.03	101	
rnum_tabl	0.04	0.03	0.00	101		0.04	0.03	0.00	105	204	0.04	0.03	0.00	101	497	0.04	0.03	0.00	505	497	0.04	0.03	0.00	101	
rnum_tab3	0.01	0.01	0.00	101		0.01	0.01	0.01		204	0.01	0.01	0.00	101		0.01	0.02	0.01	505	497	0,01	0.03	0.01	101	
			0.01					0.01					0.01					0.00					0.01		
rnum_tab4	0.02	0.01	0.01	2.02		0.01	0,0	0.01+ 0.01	101	104	0.01	0.01	0.01	1.01	497	0.02	0.01	0.01	2.05	497	0.01	0,00	0.01+ 0.01 -0.01	101	
rnum_tabi	0.05	0.07	0.01	2.02		0.05	0.06	0.01	2.05	504	0.05	0.01	0.01	101	497	0.01	0.04	0.01	202	497	0.02	0.01	0.01	101	
rnum_tab6	0.46	0.45	0.01	2.03		0,46	0.46	-0.00	5.05	204	0,46	0.43	0.03	101	497	0.46	0.46	-0.00	101	497	0,46	0.43	0.03	101	
rnum_tab7	0.03	0.01	-0.01 0.01	2.03	101	0.03	0.01	-0.01 0.01	5.05	504	0.03	0.06	-0.03°	2.02	497	0.03	0.06	-0.03" 0.01	2.05	497	0.03	0,06	-0.03 ⁺ 0.01	101	20
rnum_tab8	0.10	0.10	0.01	2.03	101	0.10	0.10	-0.00 0.00	2.05	504	0.10	0.10	-0.00 0.02	2.02	497	0.10	0.30	0.01	202	497	0.10	0.11	0.01	101	51
rnum_tab9	0.2.8	0.27	0.01	2.03	101	0.28	0.27	0.01	3.05	504	0.2.8	0,30	-0.02 0.03	101	497	0.28	0.28	0.01	101	497	0.28	0.2.8	-0.00 0.03	101	10
ployment_tab 1	0,01	0.01	-0.01 0.01	504	499	0.01	0,01	-0.00 0.01	1.04	203	0.01	0.91	-0.01 0.01	104	497	0.01	0.03	-0.01" 0.01	1.04	407	0.01	0.01	-0.01 0.01	104	1
ployment_tab1	0.08	0.08	0.01	5.0.4	499	0,08	0.08	-0.00 0.00	1.04	103	0.08	0.06	0.02	5.0.4	497	0.08	0.06	0.02	10.4	497	0.08	0.09	-0.01 0.02	104	1 10
ployment_tab 3	0.03	0.01	0.01	104	499	0.03	0.01	0.02+ 0.01	504	103	0.03	0.02	0.01	5.0.4	497	0.03	0.01	0.02+ 0.01	1.04	407	0.03	0.01	0.02*	104	1
ployment_tab-4	0.02	0.03	-0.01 0.01	5.0.4	499	0.02	0.03	-0.01 0.01	1.04	103	0.02	0.04	-0.02 0.01	5.0.4	497	0.02	0.03	•0.01 0.01	10.4	497	0.02	0.03	0.01	104	1
ployment_tabi	0.2.2	0.19	0.03	5.0.4	499	0.2.2	0.2.4	-0.01 0.03	1.04	103	0.2.2	0.2.3	0.01	5.0.4	497	0.2.2	0.25	-0.03 0.03	10.4	497	0.2.2	0.2.4	0.01	5.04	1
loyment_tab 6	0.01	0.03	-0.01	504	499	0.01	0.01	-0.00	1.04	103	0.01	0.03	-0.01	104	497	0.01	0.02	0.00	10.4	497	0.01	0.01	0.00	104	1
)loyment_tab7	0.01	0.01	-0.01*	5.0.4	499	0.01	0.01	-0.00	1.04	103	0.01	0,00	0,00	5.0.4	497	0.01	0.01	-0.01	10.4	497	0.01	0,01	-0.00 0.01	104	1
loymen t_tab 8	0,33	0.37	40.04	5.0.4	499	0.33	0.31	-0.01	1.04	103	0.33	0.37	-0.04	5.0.4	497	0.33	0.35	-0.02	10.4	497	0.33	0.36	-0.02	104	1
loyment_tab9	0.2.1	0.18	0.03	104	499	0.2.1	0.2.1	0.03	1.04	103	0.2.1	0.19	0.03	5.0.4	497	0.2.1	0,18	0.04	10.4	497	0.2.1	0.18	0.03	104	
loyment_tab 10	0.07	0.01	0.03	504	499	0.07	0,01	0.03	1.04	103	0.07	0,04	0.03	104	497	0.07	0.06	0.03	10.4	497	0.07	0.01	0.03	104	
uage_tabl	0.71	0.73	0.0.1 -0.0.1	101	101	0.71	0.71	0.01	105	204	0.71	0.68	0.03	101	497	0.71	0.71	0.00	101	497	0.71	0.70	0.01	101	1
uage_tabl	0.2.4	0.23	0.03	5.05		0.2.4	0.23	0.03	105	504	0.2.4	0.26	0.03	101	497	024	0.13	0.03	101	497	0.2.4	0.26	0.03	101	
uage_tab3	0.04	0.05	0.03	101		0.04	0.04	0.03	105	204	0.04	0.01	0.03	101	497	0.04	0.06	0.03	101	497	0.04	0.03	0.03	101	
d_tabl	0.84	0.83	0.00	101		0.84	0.80	0.03		104	0.84	0.81	0.01	1.01		0.84	0.82	0.01	101	497	0.84	0.81	0.01	101	
			0.02					0.02					0.02					0.00					0.02		
l_tab1	0.16	0.17	-0.00 0.02	101		0.16	020	-0.03	5.05	504	0.16	0.18	0.01	2.02		0.16	0.18	-0.02 0.02	202	497	0.16	0.15	0.01	101	
y_tab 1	0.01	0.01	0.00	2.03		0.01	0.01	0.00		204	0.01	0,03	-0.01 0.01	101		0.01	0.02	-0.00	101	496	0.01	0.01	0.00	101	
ty_tab 2	0.03	0.04	-0.00 0.01	2.03		0.03	0.04	-0.01 0.01	2.05	504	0.03	0.03	0 D 1 0 D 1	2.02	497	0.03	0.02	0.01	202	496	0.03	0.04	-0.01 0.01	101	
ty_tab3	0.08	0,04	0.04*	2.03		0,08	0.07	0.01	2.05	104	0.08	0.07	0.01	2.02	497	0,08	0.07	0.01	202	496	0,08	0,06	0.02	101	1
ty_tab.4	0.01	0.01	-0.00 0.01	2.03	101	0.01	0.01	-0.00 0.01	3.05	504	0.01	0.01	-0.00 0.01	101	497	0.01	0.03	-0.01 0.01	101	496	0.01	0.01	0,00	101	1
ty_tabi	0.16	0.15	0.01	2.03	101	0.16	0.13	0.03	3.05	504	0.16	0.13	0.04+	2.02	497	0.16	0.15	0.02	3.05	496	0.16	0.13	0.03	101	1
ty_tab6	0.11	0.09	0.02	1.01	101	0.11	0.09	0.02	5.05	504	0.11	0.12	-0.01 0.02	2.02	497	0.11	0.00	0.02	202	496	0.11	0.11	-0.00 0.02	101	1
y_tab7	0.01	0.06	-0.01 0.01	101	101	0.05	0.07	-0.01 0.01	5.05	504	0.01	0.07	-0.03 0.01	101	497	0.05	0.08	0.03+	3.05	206	0.05	0.06	-0.00 0.01	101	5
ty_tab 8	0.13	0.13	0.00	2.03	101	0.13	0.16	-0.03 0.02	5.05	504	0.13	0.15	-0.02 0.02	101	497	0.13	0.17	0.04+	3.05	206	0.13	0.16	-0.03 0.02	101	i
y_tab9	0.00	0.01	-0.00 0.00	2.03	101	0.00	0.01	-0.00	5.05	504	0.00	0.00	-0.00 0.00	101	497	0.00	0.01	-0.00	101	496	0.00	0.01	-0.00 0.00	101	5
y_tab 10	0.14	0.17	-0.01 0.02	5.05	101	0.14	0.16	-0.01	5.05	504	0.14	0.17	-0.01 0.02	101	497	0.14	0.35	-0.02	101	496	0.14	0.19	-0.04+ 0.02	101	
y_tab 11	0.14	0.18	-0.04 0.02	5.05	101	0.14	0.14	0.00	5.05	504	0.14	0.14	-0.00	101	497	0.14	0,13	0.02	101	496	0.14	0.12	0.03	101	;
y_tab 12	0.10	0.09	0.01	1.01	101	0.10	0.09	0.01	5.05	5.0.4	0.10	0.07	0.03+	101	497	0.10	0,08	0.02	3.05	496	0.10	0.11	-0.00	101	
on_tabl	0.18	0.18	0.00	5.05	101	0,18	0.18	0.00	105	504	0,18	0.2.0	-0.01	101	497	0.18	0.17	0.01	101	497	0.18	020	-0.02	101	5
n_tab1	0.2.0	021	0.02	5.05	101	0.2.0	0.18	0.02	105	504	020	0.2.4	0.02	101	497	020	0.23	-0.02	101	497	0.2.0	0.2.4	0.01 -0.03 -0.03	101	;
n_tab3	0.16	0.14	0.03	5.05	101	0.16	0.15	0.02	5.05		0.16	0.14	0.03	101		0.16	0.14	0.03	101	497	0.16	0.11	0.03	101	
m_tab4	0.13	0.14	0.02		101	0,13	0.15	0.02	105		0.13	0.14	-0.01	101		0.13	0,14	0.02	101	497	0,13	0.15	0.02	101	
n_tabi	0,04	0.04	0.02		101	0.04	0.03	0.01	105		0,04	0.04	0.02	1.01		0.04	0.04	0.00		497	0.04	0.03	0.01	101	
			0.01					0.01					0.01					0.01					0.01		
n_tab6	0.11	0.10	0.01		501	0.11	0.13	-0.01 0.02		504	0.11	0.08	0.03	101		0.11	0.09	0.02	202	497	0.11	0.08	0.03	101	
on_tab7	0.18	0.19	0.01	2.02		0.18	0.19	-0.01	2.05	204	0.18	0.16	0.02	101	497	0.18	0.18	-0.00	101	497	0.18	0.18	0.00		
mmy	0.51	0,48	0.04		101	0,11	0.51	0.00	2.05		0.51	0.50	0.01	101		0,11	0.12	-0.01 0.03	202	497	0.51	0.5.4	0.03	101	
now	3.67	3.71	0.02	2.02	499	3.67	3.75	-0.08 0.05	2.05	5.0.4	3.67	3,68	-0.01 0.06	1.01	497	3.67	3.78	-0.11* 0.05	5 US	407	3.67	3.76	-0.09+ 0.05	101	1
ight	126	126	40.01 0.14	480	468	126	3.14	0,12 0,14	480	469	126	5.04	0.2.2 (0.14)	480	468	126	i.0i	0.2.1 0.14	48.0	464	126	4.88	0.38** [0.14]	480	4
	3,26	3,46	0,09	504	1 101	3,16	3,2.0	0.05		103	3,16	3.42	0.14*		496	3,36	3.43	0.12*	104	497	336	3.3.4	0.02	504	

Table reports conting group and trashnest group NV means and difference in means with standard errors in parentheses (five panels, as end different signetic treatment group per panel + [+,+,+,+] indicates p < 1.6 [1,1,1,1,1,1,1].

			Pu	ıre sample					Fu	ıll sample		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	Regulation pref.	VM sufficient	RBI rating	RBI yes share	RBI no share	RBI undecided share	Regulation pref.	VM sufficient	RBI rating	RBI yes share	RBI no share	RBI undecided share
Few, risk, NGO	-0.18+	0.23^{*}	-0.35**	-0.10*	0.08^{*}	0.02	-0.13+	0.12^{+}	-0.16^{+}	-0.04	0.03	0.01
	(0.10)	(0.09)	(0.13)	(0.04)	(0.04)	(0.04)	(0.07)	(0.07)	(0.09)	(0.03)	(0.02)	(0.03)
Many	-0.15	0.01	-0.12	-0.03	0.03	-0.01	-0.12^{+}	0.06	-0.07	-0.03	0.03	-0.00
	(0.10)	(0.09)	(0.13)	(0.04)	(0.03)	(0.04)	(0.07)	(0.07)	(0.09)	(0.03)	(0.02)	(0.03)
Many, NGO	-0.02	0.20*	-0.12	-0.04	0.04	0.01	-0.06	0.22***	-0.15	-0.06+	0.05^{+}	0.01
	(0.10)	(0.09)	(0.13)	(0.04)	(0.03)	(0.04)	(0.07)	(0.07)	(0.09)	(0.03)	(0.02)	(0.03)
Many, risk	-0.01	0.19^{*}	-0.06	-0.01	0.01	-0.01	-0.09	0.22***	-0.08	-0.01	0.00	0.00
	(0.10)	(0.09)	(0.13)	(0.04)	(0.03)	(0.04)	(0.07)	(0.07)	(0.09)	(0.03)	(0.02)	(0.03)
Many, risk, NGO	-0.31**	0.21*	-0.43***	-0.12**	0.12***	-0.01	-0.22**	0.17^{**}	-0.34***	-0.10***	0.08***	0.02
	(0.10)	(0.09)	(0.13)	(0.04)	(0.03)	(0.04)	(0.07)	(0.07)	(0.09)	(0.03)	(0.02)	(0.03)
Constant	5.09***	1.62**	5.66***	1.05***	-0.16	0.11	4.53***	2.09***	4.98***	1.01***	-0.09	0.08
	(0.64)	(0.59)	(0.87)	(0.28)	(0.23)	(0.24)	(0.58)	(0.55)	(0.79)	(0.26)	(0.20)	(0.22)
Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ν	1458.00	1422.00	1473.00	1474.00	1474.00	1474.00	2781.00	2714.00	2816.00	2818.00	2818.00	2818.00
r2_a	0.15	0.14	0.17	0.10	0.10	0.02	0.15	0.15	0.17	0.10	0.10	0.03
Control_mean	3.73	2.43	4.98	0.64	0.16	0.20	3.76	2.47	4.97	0.63	0.16	0.21
Control sd	1.14	1.00	1.57	0.48	0.37	0.40	1.11	1.04	1.53	0.48	0.37	0.41

Table A.12: How voluntary firm behaviour affects public opinion

Linear regression of treatment group indicators on indicators of support for regulation (see model header). Standard errors displayed in parentheses. Placebo group mean and standard deviation displayed in bottom rows. Left panel regresses on 'pure' sample, i.e. sample that did not see another experiment beforehand. Right panel draws on all respondents. Control variables are used where indicated (gender, age group, self-evaluation of personal economic situation, education level, employment status, rurality, language, region of Switzerland, self-placement on left-right scale, party ID, and self-stated usual voting frequency).

* (+, **, ***) indicates p < 0.05 (0.1, 0.01, 0.001)

			Pı	ire sample					F	ull sample		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	Regulation pref.	VM sufficient	RBI rating	RBI yes share	RBI no share	RBI undecided share	Regulation pref.	VM sufficient	RBI rating	RBI yes share	RBI no share	RBI undecided share
Few, risk, NGO	-0.15	0.25^{**}	-0.30*	-0.11*	0.06^{+}	0.05	-0.15*	0.13^{+}	-0.16	-0.04	0.03	0.02
	(0.10)	(0.10)	(0.14)	(0.04)	(0.03)	(0.04)	(0.07)	(0.07)	(0.10)	(0.03)	(0.02)	(0.03)
Many	-0.15	0.07	-0.15	-0.05	0.03	0.02	-0.11	0.05	- 0. 04	-0.03	0.02	0.00
	(0.10)	(0.09)	(0.14)	(0.04)	(0.03)	(0.04)	(0.07)	(0.07)	(0.10)	(0.03)	(0.02)	(0.03)
Many, NGO	0.01	0.21*	-0.05	-0.05	0.03	0.02	-0.02	0.18**	- 0. 05	-0.04	0.03	0.01
	(0.10)	(0.09)	(0.14)	(0.04)	(0.03)	(0.04)	(0.07)	(0.07)	(0.1 0)	(0.03)	(0.02)	(0.03)
Many, risk	-0.01	0.19^{*}	-0.08	-0.02	0.00	0.02	- 0.06	0.17^{*}	- 0. 02	0.00	- 0.01	0.01
	(0.10)	(0.10)	(0.14)	(0.04)	(0.03)	(0.04)	(0.07)	(0.07)	(0.1 0)	(0.03)	(0.02)	(0.03)
Many, risk, NGO	-0.23*	0.20^{*}	-0.31*	-0.10*	0.09**	0.01	-0.17*	0.12^{+}	-0.22*	-0.07*	0.06^{*}	0.01
	(0.10)	(0.09)	(0.14)	(0.04)	(0.03)	(0.04)	(0.07)	(0.07)	(0.10)	(0.03)	(0.02)	(0.03)
Constant	3.73***	2.43***	4.98^{***}	0.64^{***}	0.16^{***}	0.20***	3.76***	2.47^{***}	4.97***	0.63***	0.16***	0.21***
	(0.07)	(0.07)	(0.10)	(0.03)	(0.02)	(0.03)	(0.05)	(0.05)	(0.07)	(0.02)	(0.02)	(0.02)
N	1541.00	1499.00	1562.00	1564.00	1564.00	1564.00	2959.00	2881.00	3004.00	3007.00	3007.00	3007.00
r2_a	0.00	0.00	0.00	0.00	0.00	- 0.00	0.00	0.00	0.00	0.00	0.00	- 0.00
Control _me an	3.73	2.43	4.98	0.64	0.16	0.20	3.76	2.47	4.97	0.63	0.16	0.21
Control_sd	1.14	1.00	1.57	0.48	0.37	0.40	1.11	1.04	1.53	0.48	0.37	0.41

Table A.13: How voluntary firm behaviour affects public opinion - results without control variables

Linear regression of treatment group indicators on indicators of support for regulation (see model header). Standard errors displayed in parentheses. Placebo group mean and standard deviation displayed in bottom rows. Left panel regresses on "pure" sample, i.e. sample that did not see another experiment beforehand. Right panel draws on all respondents. * (+,*****) indicates p < 0.05 (0.1, 0.01, 0.001)

Second, as we use several outcome measures for the same underlying concept of demand for regulation, we follow Mutz (2011) and assess whether our results are affected by measurement error. We derive a more robust measurement of our dependent variable, a combined score from a PCA dimension reduction on our two crowding-out measures, the RBI rating and RBI yes and no voting indicator, standardized with zero mean and a variance of one. While this measure cannot be interpreted directly, it should be less prone to measurement error compared to a single Likert scale item. As reported in Appendix Figure A.15, our results are very similar when using this approach.

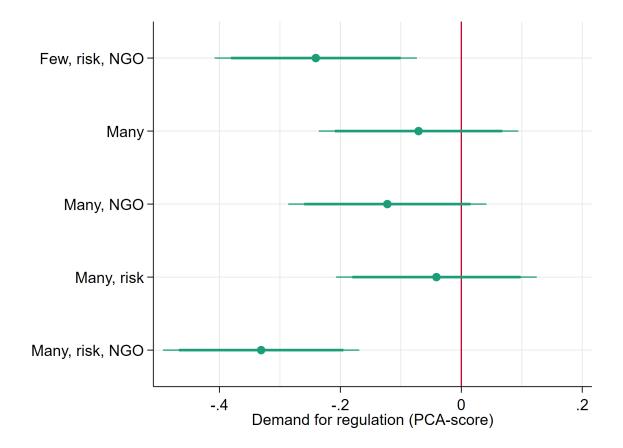


Figure A.15: Treatment effect estimates of vignette conditions relative to the placebo group on outcome variable 'Demand for regulation', derived as first principle component (eigenvalue of 3.11, explaining 62% of variance) from the two crowding-out measures, the RBI rating and RBI yes and no voting indicator. The regression includes socio-demographic and political controls. Whiskers report 95% and 90% confidence intervals.

Third, since we conduct a test of multiple hypotheses on the same sample of data, we tested our results for robustness with regard to multiple comparisons. To that end, we adjusted the p-values of the coefficients reported in the main paper and the left panel (models 1 to 6) of Appendix Table A.12 using the procedure suggested by Benjamini and Hochberg (1995). This procedure corrects (increases) the p-values based on the false discovery rate – the expected share of 'false rejections of the null hypothesis' among all rejections. The output of this robustness test for our treatment conditions is summarised by Appendix Tables A.14 to A.19 and discussed in greater detail below. In the discussion, we focus on those vignettes, whose coefficients' p-values reached conventional levels (i.e. p<10%) of statistical significance in the regressions reported in Appendix Table A.12.

Appendix Table A.14 reports raw and adjusted p-values for our treatment conditions in model 1. Model 1 uses participants' support for government regulation of corporate behaviour abroad as the dependent variable. Given the adjusted p-values, we see that even though p-values increase considerably, the *many*, *risk*, *NGO*-vignette retains statistical significance at the 5%-level.

Appendix Table A.15 summarises raw and adjusted p-values for model 2. The dependent variable here is the perception that voluntary measures suffice to address environmental and social externalities caused by Swiss MNEs abroad. We observe, that the p-value for the *many*, *risk*-vignette increases beyond conventional levels of statistical significance. The adjusted p-values for the *few*, *risk*, *NGO*, the *many*, *NGO* and the *many*, *risk*, *NGO* treatment conditions stay in-between 5% and 10%.

Appendix Table A.16 compares raw and adjusted p-values for model 3, whose dependent variable is participants' rating of the RBI. The adjusted p-value for the *few*, *risk*, *NGO*-vignette climbs from 2% to 10%. However, the *many*, *risk*, *NGO* treatment condition retains its 5% significance level.

Finally, Appendix Tables A.17 to A.19 show the raw and adjusted p-values for models 4 to 6, estimating the effect of our treatment conditions on the RBI yes and no shares as well as the on the 'undecided' share. The effect induced by the *few*, *risk*, *NGO*-vignette is on the margin of the 10%-level in model 4 (yes share) and loses statistical significance in model 5 (no share). In contrast, the coefficient estimated for the *many*, *risk*, *NGO*-vignette remains statistically significant at the 10%-level in model 4 (yes share) and at the 5%-level in model 5 (no share). We did not observe statistically significant effects of our treatments on the undecided share.

In sum then, if we adjust the p-values of our treatment effect estimates such as to provide a more conservative measurement of statistical significance, our main findings remain robust. For voluntary corporate initiatives to reduce support for government regulation of corporate behaviour abroad, and to reduce support for the RBI, in particular, participation by a large share of companies, participation of companies in high-risk sectors and external oversight are required. Moreover, given the adjusted p-values, the effects triggered by the vignette combining engagement by a *small* share of the private sector, high-risk sector companies and external oversight should be interpreted with caution.

Table A.14: P-values of treatments effects on support for more government regulation

	р	$\mathbf{b}\mathbf{h}$
Few, risk, NGO	0.12	0.30
Many	0.13	0.31
Many, NGO	0.80	0.90
Many, risk	0.94	0.98
Many, risk, NGO	0.00	0.03

Left column: p-values based on regression reported in model 1 in Appendix Table A.12. Right column: p-values from left column adjusted by the procedure of Benjamini and Hochberg.

Table A.15: P-values of treatments effects on perception that voluntary measures suffice

	р	\mathbf{bh}
Few, risk, NGO	0.01	0.06
Many	0.64	0.80
Many, NGO	0.01	0.08
Many, risk	0.03	0.17
Many, risk, NGO	0.01	0.07

Left column: p-values based on regression reported in model 2 in Appendix Table A.12.

Right column: p-values from left column adjusted by the procedure of Benjamini and Hochberg.

Table A.16: P-values of treatments effects on rating of the RBI

	р	\mathbf{bh}
Few, risk, NGO	0.02	0.10
Many	0.31	0.65
Many, NGO	0.46	0.79
Many, risk	0.44	0.77
Many, risk, NGO	0.00	0.02

Left column: p-values based on regression reported in model 3 in Appendix Table A.12. Right column: p-values from left column adjusted by the procedure of Benjamini and Hochberg.

Table A.17: P-values of treatments effects on RBI yes share

	р	bh
Few, risk, NGO	0.02	0.10
Many	0.39	0.58
Many, NGO	0.26	0.47
Many, risk	0.63	0.73
Many, risk, NGO	0.01	0.06

Left column: p-values based on regression reported in model 4 in Appendix Table A.12. Right column: p-values from left column adjusted by the procedure of Benjamini and Hochberg.

Table A.18: P-values of treatments effects on RBI no share

	р	$\mathbf{b}\mathbf{h}$
Few, risk, NGO	0.07	0.36
Many	0.44	0.66
Many, NGO	0.30	0.53
Many, risk	0.88	0.97
Many, risk, NGO	0.00	0.03

Left column: p-values based on regression reported in model 5 in Appendix Table A.12. Right column: p-values from left column adjusted by the procedure of Benjamini and Hochberg.

Table A.19: P-values of treatments effects on RBI undecided share

	р	$\mathbf{b}\mathbf{h}$
Few, risk, NGO	0.26	0.71
Many	0.78	0.98
Many, NGO	0.73	0.98
Many, risk	0.68	0.98
Many, risk, NGO	0.94	0.98

Left column: p-values based on regression reported in model 6 in Appendix Table A.12. Right column: p-values from left column adjusted by the procedure of Benjamini and Hochberg.

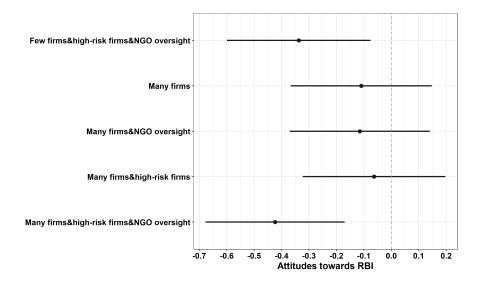


Figure A.16: Estimates of treatment effects of vignette conditions relative to the placebo group on the outcome variable 'RBI attitudes' (item wording: "On a scale from 1 (totally opposed) to 7 (totally in favour), how strongly are you for or against the Responsible Business Initiative" (N=1471). Whiskers report 95% confidence intervals. The regression includes socio-demographic and political control variables. Full results reported in Appendix Table A.12.

A.6 Software

We used Stata 15 (StataCorp, 2017), including additional packages (Jann, 2007, 2014, 2018; Kaplan, 2019) and R (R Core Team, 2017), including additional packages (Brewer and Harrower, 2002; Dahl et al, 2019; Elff, 2019; Hlavac, 2018; Revelle, 2019; Robinson and Hayes, 2020; Solt and Hu, 2015; Wickham et al, 2019; Wilke, 2019) for data analysis.

Appendix References

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