

# Attitudes of millennials toward corporate responsibility: a 28-society multilevel analysis

Cross Cultural &  
Strategic  
Management

Jane L.Y. Terpstra Tong, David A. Ralston, Olivier Furrer, Charlotte M. Karam, Carolyn Patricia Egri, Malika Richards, Marina Dabić, Emmanuelle Reynaud, Pingping Fu, Ian Palmer, Narasimhan Srinivasan, Maria Teresa de la Garza Carranza, Arif Butt, Jaime Ruiz-Gutiérrez, Chay Hoon Lee, Irina Naoumova, Yong-Lin Moon, Jose Pla-Barber, Mario Molteni, Min Hsu Kuo, Tania Casado, Yusuf M. Sidani, Audra Mockaitis, Laurie Milton, Luiza Zatorska, Beng Chia Ho, Modestas Gelbuda, Ruth Alas and Wade Danis

*(Information about the authors can be found at the end of this article.)*

Received 27 March 2023  
Revised 28 August 2023  
19 April 2024  
31 August 2024  
Accepted 28 September 2024

## Abstract

**Purpose** – We examined the attitudes of millennial-aged business students toward economic, social and environmental corporate responsibility (CR). Currently, these individuals are of an age that they have entered the workforce and are now ascending or have ascended into roles of leadership in which they have decision-making power that influences their company’s CR agenda and implementation. Thus, following the ecological systems perspective, we tested both the macro influence of cultural values (survival/self-expression and traditional/secular-rational values) and structural forces (income inequality, welfare socialism and environmental vulnerability) on these individuals’ attitudes toward CR.

**Design/methodology/approach** – This is a multilevel study of 3,572 millennial-aged students from 28 Asian, American, Australasian and European societies. We analyzed the data collected in 2003–2009 using hierarchical linear modeling.

**Findings** – In our multilevel analyses, we found that survival/self-expression values were negatively related to economic CR and positively related to social CR while traditional/secular-rational values was negatively related to social CR. We also found that welfare socialism was positively related to environmental CR but negatively related to economic CR while environmental vulnerability was not related to any CR. Lastly, income equality was positively related to social CR but not economic or environment responsibilities. In sum, we found that both culture-based and structure-based macro factors, to varying extents, shape the attitudes of millennial-aged students on CR in our sample.

**Originality/value** – Our study is grounded in the ecological systems theory framework, combined with research on culture, politico-economics and environmental studies. This provides a multidisciplinary perspective for evaluating and investigating the impact that societal (macro-level) factors have on shaping attitudes toward businesses’ engagement in economic, social and environmental responsibility activities. Additionally, our multilevel research design allows for more precise findings compared to a single-level, country-by-country assessment.

**Keywords** Economic corporate responsibility, social corporate responsibility, Environmental corporate responsibility, Hierarchical linear modeling, Cultural values, Structural forces

**Paper type** Research paper

Of the various themes of the World Economic Forum (WEF) in Davos, environment, society and governance have been the recurrent focus of discussion. Those themes, aligning with the 17 United Nations’ Sustainable Development Goals (SDGs), have resulted in an unprecedented level of global cooperation between businesses and governments. From net-



*Plain language summary:* Our 28-society study shows that millennial-aged students’ attitudes toward CR are associated with two types of societal factors: culture-based (survival/self-expression and traditional/secular-rational values) and structure-based (income inequality, and welfare socialism).

---

zero commitments, pandemic prevention, regulation on the metaverse to gender equity, migration and workplace well-being and resilience, we have seen intensified initiatives worldwide. What is underlying these private–public joint efforts is the deep-seated concern for the future of our planet and the well-being of future generations. Our study investigates the views on corporate responsibility (CR) of one of the younger generations, the millennials, who have collectively ascended to positions of decision-making power in businesses today.

Specifically, from 2003 to 2009, we surveyed a worldwide cross-section of millennial-aged business students following their formative years (adolescence) (Hupp and Jewell, 2020), yet prior to them entering the workforce. The result is an assessment of their personal attitudes on CR that is uninfluenced by the pressures of the existing business community. Thus, instead of having, for example, responses from business employees, who are early in their work lives or in their mid-career, and who may feel the pressure to provide the “right” corporate response, this approach provides us with their “innocent” personally embedded values, which will be their fundamental compasses for the remainder of their lives (Hupp and Jewell, 2020; Sagiv and Schwartz, 2022) including the time when they ascend to positions of power and decision-making authority, which for millennials is now.

Today’s younger generations, including millennials, live in a world where they are worse off than their parents and grandparents, as evidenced from various fields (e.g. law, sustainable development, economics, ecological economics) (Kurz *et al.*, 2019; McKinsey and Company, 2016). It is in this context that current and future managers will have to navigate forward. It would seem, therefore, that these business leaders are pressed, more than ever, to consider, control and be accountable for the impact of their businesses. In turn, they must consider how to improve upon – some would argue to rectify – the previous actions of capitalism and the global business community (e.g. Clark *et al.*, 2022; Fukukawa *et al.*, 2007).

In this regard, the attitudes of current and future business leaders, regarding the responsibilities of business, are critical for strategically developing and managing more sustainable business practices. Positive attitudes toward corporate responsibilities are commensurate with developing better organizational reputations, better ways for greening economic growth, better ways of meeting the basic needs of current populations and better ways of providing current and future generations with equal rights to prosperity across developed and developing societies (Jackson and Victor, 2019; Lartey *et al.*, 2020; Varadarajan and Kaul, 2018). Indeed, negative or indifferent attitudes may lead to a failure to step up to this responsibility and this may have catastrophic societal, economic and environmental consequences.

In our study, we work from the assumption that today’s millennials’ attitudes toward CR are largely shaped by their college years – a period when they were particularly receptive to environmental influences and education on CR. This assumption is grounded in research on values, particularly the works on rank-order stability, which reflects the values hierarchy and priorities of individuals (Sagiv and Schwartz, 2022). Values are deeply held beliefs that guide behavior and decision-making, serving as a foundation for forming attitudes (Sagiv and Schwartz, 2022; Triandis, 1995). Attitudes, in turn, are expressions of these values, reflecting individuals’ evaluations and feelings toward specific ideas, objects or behaviors. Research indicates that values and the associated attitudes developed over one’s formative years and influenced by factors such as parental attitudes, peer interactions and societal contexts, tend to persist into adulthood (Triandis, 1995). Examples include gender role attitudes (Piotrowski *et al.*, 2019), immigration attitudes (Miklikowska, 2017) and intergroup relations (Bohman and Miklikowska, 2020). Values stability research differentiates rank-order stability from mean-level stability (e.g. Vecchione *et al.*, 2016). Rank-order stability refers to the consistent relative importance of values, established as early as ages 5–12, which tends to strengthen with age (Abramson *et al.*, 2018; Sagiv and Schwartz, 2022; Vecchione *et al.*, 2016). Mean-level stability, on the other hand, reflects changes in the average importance of a value over time, albeit noted to be less stable as individuals age, and is influenced by cognitive maturation and shifting psychosocial needs (Gouveia *et al.*, 2015; Milfont *et al.*, 2016). Between these two forms of values stability, the concept of rank-order stability is particularly relevant because CR

initiatives involve managers making trade-off decisions that are guided by their value priorities (rank-orderings) and judgments about how to best allocate organizational resources. Hence, while the average scores of value dimensions may fluctuate over a person's life, their rank-order among these core value dimensions tends to remain remarkably stable (Sagiv and Schwartz, 2022). As attitudes toward business ethics are closely tied to one's values, the rank-order stability of one's personal values, likewise, reflects the stability of his/her attitudes at work. Thus, knowing these CR attitudes of millennial-aged students will help to paint a clearer picture of their current and future CR actions as managers. Therefore, assessing the attitudes of millennial-aged students gives us a reliable snapshot of the current and future managers' CR attitudes.

Accordingly, we attempt to more fully understand the attitudes of the millennial-aged generation toward CR by exploring macro-level antecedent influences that shape these attitudes toward the triple-bottom-line – economic, social, and environmental aspects – of CR (Elkington, 2018). Research examining the various aspects of CR has been of growing interest for management researchers for the past few decades (e.g. Aguinis and Glavas, 2012, 2019; Zhao *et al.*, 2022). The economic aspect of CR addresses the financial performance and the provision of goods and services by businesses (Furrer *et al.*, 2010). The social aspect, as initially defined by Carroll (1979), addresses the legal, ethical and philanthropic duties of a business entity vis-à-vis its various stakeholder groups. And, the environmental aspect addresses the securing of ecologically sustainable relationships with both biophysical and societal environments (Egri *et al.*, 2004). Examining the triple-bottom-line attitudes of these millennials is particularly important in light of the large body of research indicating that a person's attitude guides his/her future behaviors (e.g. Ajzen *et al.*, 2018; Ford and Richardson, 1994; Glasman and Albarracin, 2006).

Understanding the influence of macro-level antecedents is important for developing a refined cross-country perspective on CR perceptions, as these macro-level factors represent the notable characteristics of countries, which can inhibit or foster attitude development (cf. Boer and Fischer, 2013). In the sections that follow, we explain the ecological framework that we use to guide our examination of macro-level factors shaping CR attitudes. Ecological psychology on human development (Bronfenbrenner, 2005; Bronfenbrenner and Morris, 2007) applies a systems approach which underscores the importance of the environmental influence on individuals' values and attitudes formation and other developmental outcomes. We propose that this ecological systems view can help to provide a more holistic and systematic lens through which to explore our primary research question: What macro-level factors predict millennials' attitudes toward economic, social and environmental CR? As noted, to this end, we surveyed a worldwide cross-section of millennial-aged business students after their formative years but before entering the business world.

Our study makes a dual contribution to the existing literature. First, our findings will enhance the comprehension of the macro factors that influence attitudes toward CR – a perspective that lacks comprehensive exploration (Miska *et al.*, 2018). Our findings will thus enrich discussions on how country-level macro factors may shape individuals' perceptions of CR (see Jamali *et al.*, 2020; Miska *et al.*, 2018). Second, by employing a multilevel research design, we aim to provide more precise insights into the influence of macro-level factors on individuals' attitudes than can be achieved through previous single-level studies. This approach is superior to the more common cross-cultural research design, which typically involves country-to-country comparisons or correlations based on national averages. Our multilevel design will, at least partially, mitigate the concern of “careless overgeneralization of results” (Smith and Bond, 2019, p. 1), thereby reinforcing the robustness of our findings.

### **Background and theoretical development**

We employ an ecological perspective primarily based on the works of Bronfenbrenner and Morris (2007) to examine the relevant macro contextual factors that explain individuals'

---

attitudes toward CR. This perspective entails exploring the impact of individuals' broader environmental contexts on the development, manifestation and evolution of human development outcomes. It acknowledges that psychological outcomes, such as attitudes, are not solely shaped by individual variables (e.g. personality, age, gender) but are also influenced by the diverse systems and elements enveloping individuals in their life space (i.e. habitats). While the ecological systems framework (Bronfenbrenner, 2005) involves five systems, as shown in Figure 1, what is relevant to our study is the macro-system.

Focusing on the macro-system, human development is subject to four major forces in the macro environment: culture (values), society (norms and beliefs), economy (economic system and policies) and politics (laws, law enforcement practices, government agencies, political parties, and educational and social policies). For parsimony, we group these macro forces into two primary categories of elements: culture-based factors (culture and society), and structure-based factors (economy and politics). Respectively, they create the enculturation and politico-economic backgrounds for attitude development (see Berry, 2018; Bronfenbrenner, 2005). Culture-based factors establish *normative boundaries* that influence the prioritization of values among individuals (Schwartz, 1992). Consequently, these factors impact how individuals perceive the roles of corporations and the expectations they hold regarding the extent to which corporations should practice social responsibility. On the other hand, structure-based factors influence the (re)distribution of resources between businesses and society at large, primarily through the prevailing tax regime established by the government (see D'Alessandro and Fanelli, 2015). The general practices of resource allocation within a nation set the *regulatory boundaries* that define how businesses contribute to the society from which they acquire resources to sustain their operations. This indirectly establishes a parameter against which individuals gauge their judgments on the responsibilities that businesses should uphold. Lastly, what the ecological systems framework did not explicitly address is the ecological dimension linked to the surrounding physical environment. The physical environment mirrors potential threats or inherent resources within a habitat. Given the escalating apprehensions about environmental deterioration, it is essential to integrate the physical environment as a pertinent context that influences individuals' attitude development toward CR.

Understanding how macro forces influence the formation of millennials' attitudes toward CR can help companies, especially multinational enterprises (MNEs), develop strategies and interventions that align with both cultural and structural factors prevailing in their operating/host locations. This is likely to lead to more positive attitudes and higher commitment toward the company's CR agenda.

In sum, we explore the effects of both culture-based and structure-based influences on attitudes toward CR. To accomplish this end, we begin by operationalizing the culture-based influences, using Inglehart's (1997) two society-level measures (survival/self-expression values and traditional/secular-rational values). We then operationalize the structure-based influences by integrating two structure-based measures (income inequality and welfare socialism) with one environmental measure (environmental vulnerability), per the ecological perspectives (Bronfenbrenner and Morris, 2007; Capra and Jakobsen, 2017). Our resultant five hypotheses predict millennials' attitudes toward the triple bottom-line of CR.

#### *Culture-based predictors of CR attitudes*

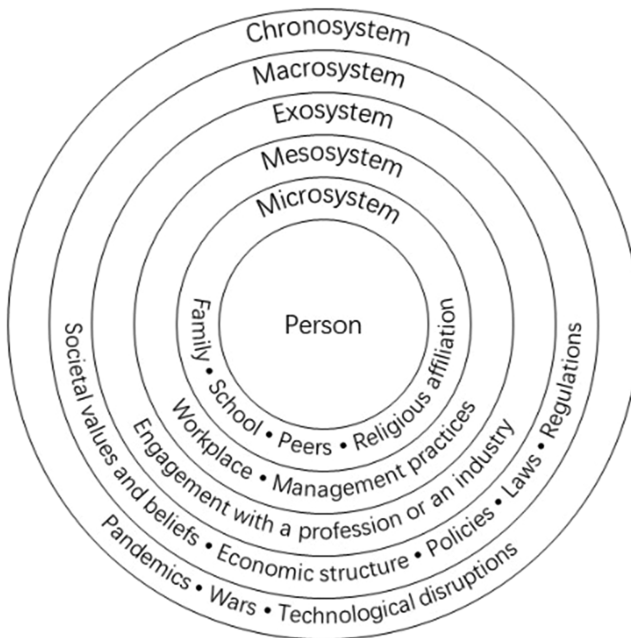
We begin by considering how culture-based predictors may potentially shape CR attitudes. Inglehart's (1997) cross-culturally relevant, society-level measures of survival/self-expression and traditional/secular-rational values provide a holistic paradigm that considers major areas of human concern, including religion, politics, economics and social life (Inglehart and Baker, 2000; Inglehart and Welzel, 2005). Inglehart (1997) highlights that societies develop values to enable their members to survive and thrive; as a result, societal values, attitudes and perceptions are corresponding responses to the existential conditions. The first values' set represents a continuum whereby survival values represent one extreme and self-expression

values represent the other extreme. The second values' set also represents a continuum with traditional values on one extreme and secular-rational values on the other.

*Survival/self-expression values.* Inglehart's (1997) survival/self-expression values dimension is concerned with the pervasiveness of materialist or postmaterialist values in a society. Enduring difficult economic, socio-political and biophysical environmental circumstances in order to ensure security and survival has been theorized as a main driving motivation within materialistic societies (Inglehart and Baker, 2000). As materialistic societies tend to be less industrialized and/or less politically stable, people often maintain a greater emphasis on survival, such as economic and physical security of the self, family and community.

Societies dominated by people holding survival values are likely to have a high propensity to avoid economic adversity in their life and have a strong orientation to safeguard and invest in their financial growth (see Yang et al., 2012). Therefore, they are likely to have a population which generally perceives that the role of business should be limited to more traditional functions, such as profit maximization and continuous market growth. From this point of view, people holding survival values are likely to be more concerned with economic survival and the need for business to put their primary emphasis upon engaging in basic economic functions and stimulating economic activity, before pursuing activities such as social and environmental responsibilities.

Conversely, societies that are postmaterialist tend to be more economically and technologically advanced and/or are governed by more stable democratic systems (Inglehart, 1997; Inglehart and Welzel, 2005). In these societies, issues relating to subjective well-being and egalitarianism appear to take center stage; and therefore, people in these societies tend to place importance on self-expression goals and quality of life concerns. Furthermore, from this frame of reference, societies dominated by people who hold self-expression values are likely to have populations that generally perceive the role of business should have moved beyond



Source(s): Adapted from the text of Bronfenbrenner and Morris (2007)

Figure 1. The ecological systems theory

---

simply maintaining and/or expanding market share. Instead, businesses should focus on enhancing the social and environmental interests of their communities and humanity (Capra and Jakobsen, 2017). As such, self-expression values are likely to be associated with more pro-social and pro-environmental CR attitudes. Thus, we propose the following hypotheses:

- H1a. In societies that less strongly embrace self-expression values (more strongly embrace survival values), millennials are more likely to hold the attitude that businesses have the duty to engage in economic CR.
- H1b. In societies that more strongly embrace self-expression values (less strongly embrace survival values), millennials are more likely to hold the attitude that businesses have the duty to engage in social CR.
- H1c. In societies that more strongly embrace self-expression values (less strongly embrace survival values), millennials are more likely to hold the attitude that businesses have the duty to engage in environmental CR.

*Traditional/secular-rational values.* Inglehart's (1997) second bipolar dimension, traditional/secular-rational values, is concerned with the importance and centrality of religion within a society. Not independent from the previous dimension, Inglehart (2000) proposes that religious orientation through the holding of traditional values is linked to a society's sense of physical and economic survival. Indeed, he states, "one of the key functions of religion was to provide a sense of certainty in an insecure environment" (p. 224). Insecurity intensifies the psychological need for belief in a higher power.

The traditional values pole emphasizes importance of deference to the nation, authority and family because allegiance/affiliation to these helps to ease some of the insecurities (Inglehart and Baker, 2000). In these societies, socially mandated reciprocal obligations are crucial and necessary to contribute and maintain these affiliations. These reciprocal obligations suggest a generational link whereby custom and normative social exchanges are reinforced between businesses and other members of society (Campbell, 1981). Based on this perspective, in traditional-oriented societies, millennials are likely to believe that the primary objective of business should be to engage in activities that serve to improve the stability of the nation and family and therefore to engage in economic and social CR.

Societies with a greater level of secular-rational values demonstrate opposite patterns (Inglehart and Welzel, 2005). In these societies, religion is less important. Peace, prosperity and welfare provision have produced an unprecedented sense of security and replaced the need for religious and communal reassurance and obligations with a growing concern for the meaning and purpose of life (Inglehart, 2000). Inglehart (2000) further suggests that societies, which embrace more secular-rational values, lead to a rise of new social movements concerning a breadth of non-traditional issues from environment to gender equality where ties to tradition and hierarchical authority are questioned and new status quo arrangements are forged. In these secular-rational societies, there is an increased concern for meeting international human rights standards as well as enhancing efforts toward global environmental sustainability (Hassoun, 2012). Based on this perspective, in secular-rational-oriented societies, millennials are likely to agree that it is the duty of businesses to engage in higher-order environmental responsibilities. Thus, we propose the following hypotheses:

- H2a. In societies that less strongly embrace secular-rational values (more strongly embrace traditional values), millennials are more likely to hold the attitude that businesses have the duty to engage in economic CR.
- H2b. In societies that less strongly embrace secular-rational values (more strongly embrace traditional values), millennials are more likely to hold the attitude that businesses have the duty to engage in social CR.

---

H2c. In societies that more strongly embrace secular-rational values (less strongly embrace traditional values), millennials are more likely to hold the attitude that businesses have the duty to engage in environmental CR.

### *Structure-based predictors of CR attitudes*

The breadth of factors that fall within the realm of structure-based predictors are vast. We consider here economic, institutional and environmental factors as structure-based predictors, similar to the ecological systems framework (Bronfenbrenner, 2005) that considers social-economic status, regulations, laws and policies as the macro factors. As we explain below, we include environmental factors as part of the structure-based predictors because of its implication on the resource availability in the respective societies. Together, these structure-based factors create the operational landscape in which businesses must navigate. Additionally, they contribute to shaping the societal expectations regarding the social role that businesses should fulfill. Some of the earliest indicators that were suggested to capture structure-based influences were based on neoclassical frameworks that included, for example, average societal income or GDP per capita (Klugman *et al.*, 2011). Although useful, a focus on income alone may be overly restrictive. Ecological economists note that a focus on more holistic considerations is essential. Drawing from this sentiment, we examine two more complex structural components: income inequality (economic) and welfare socialism (political).

*Income inequality.* The presence of income inequality within a society, therefore, is likely to create a sense that there is a need to mend the tears in the social fabric. High income inequality can lead to a range of societal challenges, prompting expectations for corporations to play a more significant role in addressing these issues. First, income inequality is associated with persistent low wage for the poorer segments of society. In those countries, millennials may develop the perceptions for corporate initiatives to address this inequality through employment practices (see Cobb, 2016). For example, the large income gap between the top and bottom levels of employees that exists in English-speaking countries, with a significant increase in top incomes, underscores the importance of CR in mitigating these disparities (Tsui *et al.*, 2018). On the other hand, in developing countries where there is wide-spread poverty, businesses are expected or compelled to help alleviate people's livelihood and the associated social problems (Idemudia and Osayande, 2018). Additionally, in countries with large income disparities, there is a preference for higher tax rates to facilitate income redistribution and enhance public services, indicating a societal expectation for corporations to contribute to addressing income inequality (Watanabe, 2019). Income inequality can also impact health and job-related outcomes, with implications for social welfare and stability (Muckenhuber *et al.*, 2014). Moreover, financialized corporate governance that promotes executive compensation based on financial measures such as return on investment and stock price, has been associated with higher income inequality globally, underscoring the need for responsible corporate practices to mitigate these effects (Movahed, 2023). In conclusion, the expectation for higher corporate responsibilities in countries with high income inequality stems from the complex interplay between economic disparities, societal challenges and the role of corporations in fostering sustainable and equitable development. Therefore, in societies with higher levels of income inequality, it is possible that the millennials will perceive that businesses have a duty to engage in CR initiatives that help to serve those less fortunate to augment the sub-systems within which they must survive. Furthermore, following this rationale, the greater the income disparity, the more likely it is that people will perceive it the duty of business to engage in economic, social and environmental CR. Thus, we propose the following hypotheses:

H3a. In societies with higher levels of income inequality, millennials are more likely to hold the attitude that businesses have the duty to engage in economic CR.

H3b. In societies with higher levels of income inequality, millennials are more likely to hold the attitude that businesses have the duty to engage in social CR.

H3c. In societies with higher levels of income inequality, millennials are more likely to hold the attitude that businesses have the duty to engage in environmental CR.

*Welfare socialism.* Cullen *et al.* (2004) use this concept to describe the “level of active government intervention in a society’s economic coordination and the appropriation and redistribution of economic wealth, thereby increasing social control” (p. 415). In societies with high levels of welfare socialism, the government provides protection for its citizens from fluctuations of the market and therefore entitles people to a host of services and resources that help to decrease dependency on competitive market forces (Cullen *et al.*, 2004). This is in contrast to capitalist states that reward self-serving economic advancement where everyone looks out for his/her own interests. In short, capitalist states prefer limited government intervention and implicitly allow businesses to focus on profit maximization while welfare socialism states prefer businesses to join-force with the government in promoting social and economic equity.

This contrast is reasonably analogous to Matten and Moon’s (2008, 2020) contrast between the political system and state power of Europe versus the USA, respectively. In regard to the first, people tend to hold less positive attitudes toward economic CR in societies with greater active government interventions (i.e. welfare socialism), including the provision of services, resources and economic protection for its citizens. In Europe, for example, the power of the state is greater, and in turn, there is a clearer institutional framework and societal business system that centralizes formal, mandatory and codified rules or laws defining the responsibility of corporations to practice implicit forms of CR as part of their regular business responsibility (Matten and Moon, 2008). In the USA, with a lower level of welfare socialism, similar CR activities are less embedded and therefore less likely to be perceived as the responsibility of businesses (Matten and Moon, 2008). Thus, we propose the following hypotheses:

H4a. In societies with higher levels of welfare socialism, millennials are less likely to hold the attitude that businesses have the duty to engage in economic CR.

H4b. In societies with higher levels of welfare socialism, millennials are more likely to hold the attitude that businesses have the duty to engage in social CR.

H4c. In societies with higher levels of welfare socialism, millennials are more likely to hold the attitude that businesses have the duty to engage in environmental CR.

*Environmental predictors of CR attitudes.* Environmental predictors are a unique category of structure-based predictors considered here as it involves the physical environment which comprises an array of elements in the biosphere. Furthermore, while they are impacted by human actions, they are not humanly devised like cultural values and institutions (North, 1991) that can be measured via survey questionnaires. Any metric on the health of the environment requires multiple measures from different science disciplines, making it challenging to have a global index (see Shao *et al.*, 2014). We attribute this to the paucity of business research examining the link between the influences of the natural environment within a typical ecological framework (e.g. Bronfenbrenner, 2005) on individuals’ attitudes. Ecology emphasizes a system perspective in understanding the interplay between organisms and their living habitat. Related to ecology and relevant to our physical environment is the concept of environmental vulnerability. Environmental vulnerability adopts a wide, systems-based approach to assess the environment, and as such, it concerns “the potential for attributes of any system, human or natural, to respond adversely to events” (Kaly *et al.*, 2005, p. 3). According to this parameter, higher vulnerability indicates higher threat to the habitat, and implies that in the event of a hazardous occurrence (e.g. natural hazards, human-made pollutants and climate change), these societies will suffer losses in the diversity, extent, quality and function of their ecosystems, ultimately leading to a decreased ability to sustain life.



Environmental vulnerability provides a valuable indication of how sustainably humans are living within their environment in order to cope with any future hazardous events. This concept suggests that environments that previously endured more damage are likely to be more at risk of future damage than other societies and they are rated more environmentally vulnerable (Kaly *et al.*, 2005). This, coupled with the general threat that the resources in the environment are exhausting and fail to replenish themselves (Toth and Szigeti, 2016), signals that economic profit is in a trade-off relationship with environmental responsibility. When the environment is at risk, it becomes the shared responsibility of the entire community, including businesses, to contribute to its preservation. Consequently, a negative relationship is anticipated between environmental vulnerability and profit-driven responsibility – that is, the pursuit of economic responsibility. In an environmentally vulnerable area where resources are getting limited, people will likely expect others in the community to take care of each other. The heightened sense of community also leads to an increased expectation on businesses' social responsibility as community would like to see business do the right things. That would include helping solve social program, adhering to law and actively playing a role in the society that goes beyond the mere generation of profits. Millennials, facing higher levels of environmental vulnerability, are likely to advocate the importance of business engaging in social and environmental CR over economic CR. Thus, we propose the following hypotheses:

- H5a. In societies with higher levels of environmental vulnerability, millennials are less likely to hold the attitude that businesses have the duty to engage in economic CR.
- H5b. In societies with higher levels of environmental vulnerability, millennials are more likely to hold the attitude that businesses have the duty to engage in social CR.
- H5c. In societies with higher levels of environmental vulnerability, millennials are more likely to hold the attitude that businesses have the duty to engage in environmental CR.

## Method

### *Data, sample and procedure*

The study sample comprised 3,572 business school students from 28 societies across five continents collected between 2003 and 2009. They were born around 1985, near the end of the millennial (Gen Y) generation (1981–1996), although some may have come from the beginning of Gen Z (1997–2012). Accordingly, we label them as millennials. These millennials are likely ascending to or have ascended to various leadership roles in today's business world. Further details on the data are available in the [supplementary materials](#) file. We provide the demographic characteristics (age and gender) for each society's sample in [Table 1](#), and summary statistics of the individual-level variables in [Table 2](#).

Surveys were completed in the local languages of the societies in which data were collected, with India being the one exception, where English was the business language. To develop the survey for each society, we used standard translation/back-translation procedures in which one person translated the questionnaire from English to the national language, and then a second person independently translated the questionnaire from the national language back to English (Brislin, 1986).

### *Measures*

*Attitudes toward corporate responsibilities.* The 25 items for attitudes toward CR consisted of four 4-item subscales regarding discretionary, ethical, legal, and economic responsibilities (Maignan and Ferrell, 2003) as well as a 9-item environmental CR measure (Branzei and Vertinsky, 2002; Egri and Hernal, 2002). Respondents were asked to rate each of these 25 CR

**Table 1.** Demographic characteristics of societal samples

	<i>N</i>	Age (Mean)	Gender (% Female)
Australia	113	21.1	42
Austria	89	23.1	65
Brazil	91	20.5	42
Canada	100	19.8	50
China	139	21.0	63
Colombia	83	20.4	47
Croatia	67	20.2	26
Czech Republic	103	22.1	65
Estonia	92	20.3	63
France	89	23.4	38
Hong Kong	159	20.5	59
India	50	21.8	18
Italy	96	21.9	44
Lebanon	119	21.3	51
Lithuania	120	20.3	79
Mexico	108	20.6	67
New Zealand	125	21.1	58
Pakistan	110	19.3	42
Peru	91	18.5	54
Poland	81	21.6	56
Russia	150	19.5	67
Singapore	494	21.7	53
South Korea	117	24.1	30
Spain	114	22.9	55
Switzerland	307	23.2	38
Taiwan	115	20.3	61
Thailand	155	20.9	74
US	95	21.8	42
Total	3,527	21.3	53

**Source(s):** Compiled by the authors

items based on the degree to which they agreed that it was the duty of businesses to engage in each, using a nine-point Likert-type scale (1 = strongly agree to 9 = strongly disagree; items were reverse scored to indicate support for CR activities). We assessed the measurement model using confirmatory factor analysis, and measurement invariance across societies using multi-group confirmatory factor analysis. Based on measurement invariance results and reliability analysis, we derived a three-dimensional CR scale with 15 items. The scale items used in this study are provided in [Appendix](#). The details of scale derivation, along with the associated measurement invariance and reliability analyses, are available in the [supplementary materials](#) file.

*Cultural values.* The World Values Survey (WVS) society scores were used for the two societal-level cultural values dimensions of survival/self-expression and traditional/secular-rational values ([www.worldvaluessurvey.org](http://www.worldvaluessurvey.org)). For 19 of the 28 countries, we used the Wave 5 data. However, for Austria, Croatia, Czech Republic, Estonia, Lithuania, Pakistan, Peru and Singapore – which were not participatory countries in Wave 5 – we used the data from Wave 4 instead. For the first dimension, survival values represent the lower scores and self-expression values represent the higher scores. For the second dimension, traditional values represent lower scores and secular-rational values represent higher scores. Since Lebanon has not been included in the WVS surveys, our tests of the cultural values hypotheses excluded this society. [Table 3](#) provides the data of the societal predictors.

**Table 2.** CR Attitudes and universalism values: means, standard deviations, and scale reliabilities

	Social CR			Environmental CR			Economic CR			Universalism		
	Mean	SD	$\rho$	Mean	SD	$\rho$	Mean	SD	$\rho$	Mean	SD	$\alpha$
Australia	6.74	0.78	0.85	6.49	1.11	0.89	5.14	1.60	0.67	4.44	1.18	0.83
Austria	7.04	0.71	0.56	6.85	0.94	0.72	4.19	1.33	0.69	3.93	0.94	0.71
Brazil	7.15	0.59	0.81	6.63	0.78	0.82	4.80	1.59	0.82	4.46	1.04	0.79
Canada	6.92	0.80	0.78	6.53	0.95	0.83	4.66	1.62	0.70	4.17	0.96	0.82
China	6.25	0.72	0.56	6.72	0.87	0.69	6.18	1.44	0.68	4.53	0.87	0.77
Colombia	6.99	0.78	0.63	6.91	0.86	0.72	5.68	1.30	0.60	4.21	1.02	0.74
Croatia	6.32	0.85	0.65	6.80	0.91	0.66	5.89	1.28	0.55	4.68	1.27	0.75
Czech Rep	6.33	0.77	0.61	6.93	0.92	0.74	5.65	1.50	0.74	3.64	0.83	0.66
Estonia	6.62	0.80	0.80	6.52	1.05	0.70	5.48	1.59	0.69	4.19	1.13	0.81
France	6.83	0.78	0.80	6.95	0.87	0.77	5.55	1.41	0.66	3.91	1.06	0.76
Hong Kong	6.52	0.75	0.65	6.58	0.90	0.73	6.08	1.40	0.70	4.55	0.92	0.76
India	6.48	1.08	0.80	6.45	1.14	0.76	6.33	1.75	0.73	4.71	1.01	0.70
Italy	6.34	0.80	0.60	6.90	0.87	0.66	5.17	1.60	0.73	4.16	1.10	0.75
Lebanon	6.52	0.97	0.78	6.65	0.76	0.79	5.44	1.73	0.70	4.22	0.99	0.66
Lithuania	6.24	0.75	0.67	6.03	0.90	0.69	6.43	1.59	0.73	3.81	0.94	0.72
Mexico	6.94	0.70	0.75	6.83	0.81	0.70	5.94	1.29	0.69	4.58	1.07	0.73
New Zealand	6.51	0.90	0.82	6.43	1.07	0.88	5.28	1.96	0.73	4.16	1.09	0.79
Pakistan	6.76	0.87	0.80	6.49	0.89	0.76	5.76	1.84	0.72	4.10	1.07	0.71
Peru	6.84	0.85	0.85	6.85	0.83	0.73	5.61	1.29	0.61	4.82	0.93	0.64
Poland	6.45	0.96	0.82	6.67	0.89	0.79	5.44	1.59	0.63	4.22	1.01	0.77
Russia	6.63	0.77	0.59	6.40	1.06	0.78	6.90	1.19	0.70	3.92	1.23	0.78
Singapore	6.06	0.69	0.75	6.94	0.83	0.80	5.60	1.79	0.75	3.92	1.11	0.76
S. Korea	6.57	0.79	0.68	6.22	0.96	0.78	5.56	1.62	0.79	4.01	0.93	0.82
Spain	6.74	0.74	0.62	7.19	0.81	0.77	5.47	1.31	0.61	4.38	0.93	0.73
Switzerland	6.61	0.86	0.68	7.03	0.91	0.79	4.94	1.52	0.75	4.02	0.99	0.75
Taiwan	6.47	0.73	0.74	6.41	0.87	0.62	6.64	1.22	0.61	4.26	1.08	0.79
Thailand	6.30	0.80	0.67	6.38	0.84	0.66	5.69	1.46	0.36	3.66	0.85	0.55
US	6.80	0.78	0.76	6.31	0.87	0.76	5.42	1.46	0.63	4.35	1.02	0.73

**Note(s):** For the CR questions, we used a 9-point Likert-type scale (1 = strongly agree to 9 = strongly disagree); we reversed the scores before analysis. For the universalism questions, we used a 9-point Likert scale (−1 = “opposed to my values” to 7 = “of supreme importance”)

**Source(s):** Compiled by the authors

*Income inequality.* The Gini index for 2005 was used to measure income inequality in a society (CIA World Factbook, <https://www.cia.gov/library/publications/the-world-factbook/>). The Gini index ranges from 0 (equality) to 100 (inequality).

*Welfare socialism.* To calculate an index for welfare socialism in a society, publicly available data were combined following the previous published work using these measures (as Esping-Andersen, 1990; Martin et al., 2007). The three-item measure consisted of: public social security expenditure as a percentage of GDP (International Labor Organization; <http://www.ilo.org>); total government tax revenue as a percentage of GDP, and total government expenditures as a percentage of GDP (IMF; <http://www.imf.org>). The three-year (2003–2005) average scores for each indicator were standardized and then averaged for a composite measure that represents the level of government intervention and welfare safety nets in a society (see Martin et al., 2007). This three-item measure had a scale reliability of  $\alpha = 0.86$ .

*Environmental vulnerability index (EVI).* The publicly available 2005 EVI was used as a measure of environmental vulnerability. This measure is compiled by the South Pacific Applied Geoscience Commission (SOPAC) and the United Nations Environment Program (UNEP) (Kaly et al., 2005). Each society has a single composite score within one of five vulnerability classifications. The composite score is comprised of 50 indicators used for estimating the vulnerability of the environment of a society to future shocks, damage and

**Table 3.** Societal-level predictors

Society	Survival/Self expression value	Traditional/ Secular Rational values	Income inequality	Welfare state	Environ-mental vulnerability
Australia	1.75	0.21	35.20	0.32	238
Austria	1.43	0.25	29.10	1.90	369
Brazil	0.61	-0.98	57.00	0.39	281
Canada	1.91	-0.26	32.60	0.34	251
China	-1.16	0.80	46.90	-1.08	360
Colombia	0.60	-1.87	58.60	-0.65	296
Croatia	0.31	0.08	29.00	0.86	343
Czech Rep	0.38	1.23	25.40	0.33	315
Estonia	-1.19	1.27	35.80	0.27	280
France	1.13	0.63	32.70	1.85	361
Hong Kong	-0.98	1.20	43.40	-1.02	309
India	-0.21	-0.36	36.80	-1.01	385
Italy	0.60	0.13	36.00	1.39	386
Lebanon	.	.	45.00	-0.60	387
Lithuania	-1.00	0.98	36.00	0.30	314
Mexico	1.03	-1.47	46.10	-0.99	306
New Zealand	1.86	0.00	32.90	0.00	289
Pakistan	-1.25	-1.42	30.60	-0.52	373
Peru	0.03	-1.36	52.00	-0.81	268
Poland	-0.14	-0.78	34.50	0.99	354
Russia	-1.42	0.49	39.90	0.17	273
S. Korea	-0.28	-0.64	31.60	-0.28	373
Singapore	-1.37	0.61	42.50	-1.12	428
Spain	0.54	0.09	34.70	0.54	352
Switzerland	1.90	0.74	33.70	0.13	348
Taiwan	-1.18	1.16	33.00	-0.77	324
Thailand	0.01	-0.64	42.00	-0.93	308
US	1.76	-0.81	40.80	-0.01	300
Average	0.21	-0.03	38.35	0.00	327.54

**Source(s):** Compiled by the authors

degradation. Specifically, the composite score consists of measures of ecosystem resources and services, human-ecological processes, weather and climate, geography and geology. The scale ranges from resilient to extremely vulnerable, with a higher score indicating greater vulnerability. The EVI for societies in our study ranged from a score of 238–428.

*Individual-level controls.* We included a number of individual-level control variables in analyses. Previous research has found that personal values orientations are related to environmental concern and pro-environmental behavior (De Groot and Steg, 2007; Schultz et al., 2005). In particular, universalism values have been identified as consistently positively related to support for social and environmental accountability (Fukukawa et al., 2007; Schultz et al., 2005). Universalism values relate to understanding and protecting the welfare for all people and for nature. Hence, we included the universalism values measure from the Schwartz Values Survey (SVS) instrument which has been extensively used in cross-cultural studies of personal values orientations (Schwartz, 1992). The universalism values scale consists of eight items (nine-point Likert scale; -1 = “opposed to my values” to 7 = “of supreme importance”). For the 28 societies, the average of the scale reliabilities (Cronbach  $\alpha$ ) for universalism values was  $\alpha = 0.74$  (s.d. = 0.06), and the within-subject standardized scores were used in analyses (Hanges, 2004). In addition, research has shown that personal demographic characteristics are related to personal values, ethical sensitivity, prosocial behavior and environmental attitudes

---

and behaviors (e.g. [Ruiter and De Graaf, 2006](#)). Thus, we also included participant age (years) and gender (0 = male; 1 = female) as covariates in the analyses.

### *Analyses*

We conducted multilevel analyses and tested our hypotheses by examining the cross-level direct effect of each macro societal factor on the individual-level variables. We did so to address the limitations of the conventional method that compares society-by-society means or their associations, which disregards the within-society variances in sub-samples ([Ralston et al., 2022](#)).

We used hierarchical linear modeling (HLM) to test our hypotheses (see [Raudenbush and Bryk, 2002](#)). Two sets of HLM intercepts-as-outcomes models were estimated to assess the influence of the cultural factors and the structural factors on respondents' attitudes toward CRs. The first set of models included the societal culture variables of survival/self-expression and traditional/secular-rational values; the second set included the societal structure variables of income inequality, welfare socialism and environmental vulnerability. In all models, the individual-level control variables were universalism values and participant age and gender. Societal-level variables were grandmean-centered and individual-level variables were groupmean-centered (per [Raudenbush and Bryk, 2002](#)) in the HLM analyses.

As shown in [Table 2](#), there were five societies with CR attitudes scale reliabilities (three for social CR and two for economic CR) that were below the 0.60 cutoff level used in previous cross-cultural research (e.g. [Fu and Yukl, 2000](#); [Parboteeah et al., 2009](#)). Alternative HLM models with reduced samples were estimated for social CR (25 societies) and economic CR (26 societies). Model comparisons showed no differences (in terms of significant and nonsignificant predictors) for the economic CR models but two differences for the social CR models. Hence, we proceeded with the reduced sample of societies for the social CR models. The intraclass correlation coefficient (ICC) for the null models for the three CR attitudes dependent variables indicated sufficient between-group variance to proceed with HLM analyses [8.5% social CR (25 societies); 7.0% environmental CR (28 societies); 12.4% economic CR (26 societies); all  $\chi^2$  significant at  $p < 0.001$  level].

## **Results**

The means, standard deviations and correlations for the societal-level and the individual-level variables for the total sample are presented in [Table 4](#). The results of the HLMs testing hypotheses are presented in [Table 5](#).

### *Societal culture hypotheses*

[Hypothesis 1](#) proposed that millennial participants in societies that less strongly embrace self-expression values (more strongly embrace survival values) would be more likely to perceive it the duty of business to engage in economic CR ([H1a](#)) whereas millennials in societies with more self-expression values would be more likely to perceive it the duty of business to engage in social CR ([H1b](#)) and environmental CR ([H1c](#)). Consistent with [H1a](#) and [H1b](#), societal self-expression values were negatively related to economic CR ( $\gamma = -0.370$ ,  $p < 0.001$ ), and positively related to social CR ( $\gamma = 0.086$ ,  $p < 0.05$ ), respectively. Inconsistent with [H1c](#), self-expression values were not significantly related to environment CR. We, therefore, found support for [H1a](#) and [H1b](#) but not [H1c](#). The results of hypothesis tests are presented in [Table 6](#).

[Hypothesis 2](#) proposed that millennial participants in societies with less strongly embraced secular-rational values (more traditional values) would be more likely to perceive it the duty of business to engage in economic CR ([H2a](#)) and social CR ([H2b](#)) whereas millennials in societies with more secular-rational values (less traditional values) would perceive it the duty of business to engage in environmental CR ([H2c](#)). Inconsistent with [H2](#), secular-rational

**Table 4.** Descriptive statistics for total sample: means, standard deviations and correlations

	Mean	SD	1	2	3	4	5	6	7	
<i>Individual-level<sup>a</sup></i>										
1	Social CR	6.59	0.83							
2	Environmental CR	6.61	0.96	-0.19***						
3	Economic CR	5.60	1.62	-0.36***	-0.38***					
4	Universalism	4.16	1.05	0.11***	0.20***	-0.18***				
5	Age	21.33	2.20	-0.09*	0.12***	-0.10**	-0.01			
6	Gender	0.53	0.50	0.06***	0.02	-0.07*	0.03*	-0.19***		
<i>Societal-level<sup>b</sup></i>										
1	Social CR	6.61	0.80	1	2	3	4	5	6	7
2	Environmental CR	6.65	0.91	0.16						
3	Economic CR	5.61	1.51	-0.46*	-0.35					
4	Survival(-)/Self-expression(+)	0.21	1.13	0.43*	0.36	-0.70				
5	Traditional(-)/Secular(+)	-0.03	0.92	-0.42*	-0.15	0.19	-0.26			
6	Income inequality	38.55	8.33	0.38*	-0.04	0.08	-0.11	-0.47*		
7	Welfare socialism	0.00	0.89	0.17	0.33	-0.50	0.43*	0.19	-0.48*	
8	Environmental vulnerability	327.54	47.39	-0.35	0.17	0.02	-0.28	0.11	-0.22	-0.02

**Note(s):** \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$

<sup>a</sup>Individual level:  $N = 3,527$ ; gender coded as 1 = female and 0 = male

<sup>b</sup>Societal level:  $N = 28$  except for WVS values  $N = 27$

**Source(s):** Compiled by the authors

**Table 5.** Results for HLM analyses of societal influences on CR attitudes

		Economic CR		Social CR		Environmental CR	
		Coeff.	s.e.	Coeff.	s.e.	Coeff.	s.e.
<i>Cultural model<sup>a</sup></i>							
Intercept	$\gamma_{00}$	6.137***	0.363	7.157***	0.200	5.988***	0.214
Age	$\gamma_{10}$	-0.017	0.016	-0.029**	0.009	0.028**	0.010
Gender	$\gamma_{20}$	-0.356***	0.061	0.077*	0.034	0.109**	0.036
Universalism	$\gamma_{30}$	-0.321***	0.029	0.091***	0.016	0.161***	0.017
Survival/Self-expression	$\gamma_{01}$	-0.370***	0.078	0.086*	0.042	0.072	0.044
Traditional/Secular	$\gamma_{02}$	-0.027	0.097	-0.097*	0.048	-0.036	0.054
<i>Structural model<sup>b</sup></i>							
Intercept	$\gamma_{00}$	6.279***	0.368	7.059***	0.197	5.991***	0.210
Age	$\gamma_{10}$	-0.024	0.016	-0.024**	0.009	0.028**	0.010
Gender	$\gamma_{20}$	-0.351***	0.061	0.088*	0.034	0.103**	0.036
Universalism	$\gamma_{30}$	-0.315***	0.029	0.091***	0.016	0.161***	0.017
Income inequality	$\gamma_{01}$	-0.013	0.014	0.019**	0.005	0.008	0.007
Welfare socialism	$\gamma_{02}$	-0.414**	0.133	0.088	0.055	0.121*	0.061
Environmental vulnerability	$\gamma_{03}$	-0.000	0.002	-0.001	0.001	0.001	0.001

**Note(s):** <sup>a</sup> $N = 24$  societies for social CR, and  $N = 27$  societies for environmental CR and  $N = 25$  societies for economic CR

<sup>b</sup> $N = 25$  societies for social CR, and  $N = 28$  societies for environmental CR and  $N = 26$  societies for economic CR

\* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$

**Source(s):** Compiled by the authors

**Table 6.** Summary of results of hypothesis tests

Independent variable	CR dimension	Hypothesis	Finding of sub-hypotheses
<i>Culture-based</i>			
<b>H1:</b> Self-expression values	<i>Economic CR</i>	<b>H1a.</b> Negative	SUPPORTED
	<i>Social CR</i>	<b>H1b.</b> Positive	SUPPORTED
	<i>Environmental CR</i>	<b>H1c.</b> Positive	n.s.
<b>H2:</b> Secular-rational values	<i>Economic CR</i>	<b>H2a.</b> Negative	n.s.
	<i>Social CR</i>	<b>H2b.</b> Negative	SUPPORTED
	<i>Environmental CR</i>	<b>H2c.</b> Positive	n.s.
<i>Structure-based</i>			
<b>H3:</b> Income inequality	<i>Economic CR</i>	<b>H3a.</b> Positive	n.s.
	<i>Social CR</i>	<b>H3b.</b> Positive	SUPPORTED
	<i>Environmental CR</i>	<b>H3c.</b> Positive	n.s.
<b>H4:</b> Welfare socialism	<i>Economic CR</i>	<b>H4a.</b> Negative	SUPPORTED
	<i>Social CR</i>	<b>H4b.</b> Positive	n.s.
	<i>Environmental CR</i>	<b>H4c.</b> Positive	SUPPORTED
<b>H5:</b> Environmental vulnerability	<i>Economic CR</i>	<b>H5a.</b> Negative	n.s.
	<i>Social CR</i>	<b>H5b.</b> Positive	n.s.
	<i>Environmental CR</i>	<b>H5c.</b> Positive	n.s.

**Note(s):** n.s. = not significant

**Source(s):** Compiled by the authors

values were not significantly related to economic CR or environmental CR. However, consistent with **H2**, secular-rational values were negatively related social CR ( $\gamma = -0.097$ ,  $p < 0.05$ ). We only found support for **H2b**.

*Structural hypotheses*

**Hypothesis 3** proposed that the level of income inequality in a society would be positively related to the importance attributed to economic CR (H3a), social CR (H3b) and environmental CR (H3c). Consistent with H3, income inequality was positively related to the importance attributed to social CR ( $\gamma = 0.019, p < 0.01$ ). Inconsistent with H3, income inequality was not significantly related to economic CR or environmental CR. Hence, we only found support for H3b.

**Hypothesis 4** proposed that societal welfare socialism would be positively related to the perception of the duty of business to engage in social CR (H4b), and environmental CR (H4c) but negatively related to economic CR (H4a). Consistent with H4a and H4c, welfare socialism was negatively related to economic CR ( $\gamma = -0.414, p < 0.01$ ) while positively related to environmental CR ( $\gamma = 0.121, p < 0.05$ ). Inconsistent with H4, welfare socialism was not significantly related to social CR. Hence, we found support for H4a and H4c but not for H4b.

**Hypothesis 5** proposed that the environmental vulnerability of a society would be negatively related to the likelihood to perceive it the duty to engage in economic CR (H5a) and positively related to social CR (H5b) and environmental CR (H5c). Inconsistent with H5, environmental vulnerability was not significantly related to economic CR, social CR or environmental CR. Hence, H5a, H5b and H5c were not supported.

*Individual-level demographic characteristics*

For the two sets of HLM models, participant age was found to be negatively related to the importance of social CR ( $p < 0.05$ ), positively related to environmental CR ( $p < 0.01$ ) and not significantly related to economic CR. In respect to gender, female participants attributed higher importance to social CR ( $p < 0.05$ ) and to environmental CR ( $p < 0.01$ ), whereas male participants attributed higher importance to economic CR ( $p < 0.001$ ). Universalism values were positively related to the importance of social CR and environmental CR ( $p < 0.001$ ), negatively related to economic CR ( $p < 0.001$ ).

**Discussion**

As one of the few large-scale, multi-society, multilevel studies on CR, our findings offer new insights into the ecological systems perspective (Bronfenbrenner, 2005) with regards to how macro-system influences shape millennials' attitudes toward CR. By exploring through a multidisciplinary lens, we identify both culture-based and structure-based predictors of CR attitudes, extending the ecological model to the domain of CR and aligning with the call for more multilevel and multidisciplinary studies (Rupp *et al.*, 2024). We found support for the associations between self-expression values and economic and social CR, between secular-rational values and social CR, between income inequality and social CR, as well as between welfare socialism and both economic CR and environmental CR, but not for any other relationship that we tested. In the following discussion, we focus on the hypotheses for which we did not find support, and we derive theoretical and research insights from them.

*Culture-based predictors*

Millennials' cultural backgrounds were not related to environmental CR, suggesting limited predictive power for environmental CR and indicating that attitudes toward environmental responsibility may transcend cultures, leading to non-significant findings. This aligns with mixed results in existing literature on the value-environmental attitude relationship (Cox *et al.*, 2011; Dietz *et al.*, 2002; Haller and Hadler, 2008). Some scholars suggest that environmental concerns have a global reach (Marquart-Pyatt, 2012) while others argue that environmental responsibility is linked to traditional values in non-Western contexts, such as Japan (Aoyagi-Utsui *et al.*, 2003). Accordingly, Japan's concern for the environment, rooted in its history of heavy pollution, aligns with traditional values, which is often viewed as opposing progressive



---

values. Conversely, in countries such as China, censorship may limit millennials' awareness of environmental threats (e.g. [Tilt and Xiao, 2010](#)). This unexpected finding calls for a re-evaluation of Inglehart's post-materialism thesis (2000), especially in developing economies and non-Western cultures ([Dunlap and Mertig, 1997](#)).

### *Structure-based predictors*

*Income inequality.* We found no relationship between income inequality and environmental or economic CRs. This suggests that environmental concerns may transcend not only across cultures, but also across varying economic structures, including income inequality. This supports the idea that environmental issues may have a global reach, or that may lack a consensual awareness among millennials regarding the levels of environmental threat.

Income inequality is a complex phenomenon. While a country's tax regime typically aims to redistribute wealth as we argued, other macro factors – such as political ideology ([García-Castro et al., 2019](#)), government intervention and institutional quality ([Blancheton and Chhorn, 2021](#)) – might influence perceptions of economic CR. How all these macro factors interact to affect individuals' perceptions of CR is beyond the scope of the present study. The absence of a relationship between income equality and economic CR highlights this complexity. Future studies should consider additional factors that may affect the CR perceptions and a country's income inequality.

*Welfare socialism.* We found that welfare socialism influences economic and environmental CR, but not social CR. In welfare states, where the government plays a significant role in citizen well-being and wealth redistribution, attitudes toward social CR may vary, leading to no linear relationship. Some may expect businesses to take on more social responsibilities, while others see it as the government's role. A similar divergence could occur in more capitalistic societies with limited government intervention, such as the US, where opinions on the roles of government and businesses substantially differ. Further research is needed to fully explore these findings and the interaction between welfare socialism and political regimes.

*Environmental vulnerability.* Contrary to our hypothesis, we found no significant relationship between environmental vulnerability of a society and millennials' attitudes toward CR. This non-significant result suggests that there may be a complexity in the relationship between the physical environment and millennials' attitudes. The absence of significant findings could mean that the relationship between vulnerability and attitudes toward CR is not linear. To investigate this possibility, we drew three scatterplots using country-level data. As can be seen ([Supplementary Materials](#)), they revealed a random distribution, consistent with the non-significant correlations ([Table 4](#)). While there was variance in CR attitudes ([Table 2](#)) and the environmental vulnerability indices ([Table 3](#)), we can only conclude that environmental threats did not directly impact millennials' CR attitudes. One possibility is that the impact of environmental vulnerability may need to be mediated by factors like, media coverage, to influence attitudes. Without media amplification, the message of environmental degradation may not reach individuals, thus having no impact on their CR attitudes. As we did not collect media data, this represents a future research direction. For instance, reports from China suggest government censorship on climate discussions ([Pollard, 2023](#)) could affect how students perceived environmental threats. Conversely, students in countries with heavy media attention on environmental issue, such as those in Europe, might express more extreme views. These divergent views could contribute to the lack of a significant linear relationship between environmental threat and environmental CR attitudes.

### *Theoretical implications*

Our study provides a holistic examination on the macro-systems influences on millennials' CR attitudes. This systems-based view advocates that millennials' CR perceptions are influenced by the multiple systems they were exposed to during their formative years. It highlights the

---

direct impacts of societal-level factors on individual attitudes and the complex interactions between various ecological layers – micro, meso, exo, macro and chrono – that shape these perspectives. While we focus on the macro-systems factors, future research could incorporate other ecological layers to build a more nuanced model. For example, millennials' CR attitudes could be shaped by personal characteristics in the micro system (e.g. basic values and personality), workplace contexts in the meso system (e.g. organizational culture), industry or professional norms in the exo system (e.g. industry CR practices) and global events (e.g. the COVID pandemic) in the chrono system (see [Brammer et al., 2020](#)). Researchers could also explore how different systems interact to create conflicts or synergies in shaping CR attitudes using qualitative methodologies (e.g. [Jamali et al., 2020](#)).

Lastly, our study demonstrates the use of an advanced statistical method to assess macro factors' impact on micro phenomenon, standing at the frontier of similar research and offering more precise insights (e.g. [Terpstra-Tong et al., 2022](#)). Due to cultural heterogeneity, the validity of country-to-country comparison in assessing CR responses is questionable ([Ralston et al., 2022](#)). Our multilevel findings contribute to the ongoing debates in the CR literature by providing a more context-sensitive approach to understanding CR attitudes. Most studies have focused on a single-level analysis, using either macro, meso or micro variables. Our unique multi-society study on macro-level factors' impact on micro-level CR attitudes contributes to the micro foundations of the field and offers a basis for more context-sensitive research ([Athanasopoulou and Selsky, 2015](#); [Singh et al., 2023](#)).

#### *Practical implications*

Our study provides insights for governments and policymakers on how to encourage businesses to implement CR. Our results show that higher societal survival values (lower self-expression values) are associated with greater emphasis on economic responsibility but less on social responsibility. Governments in those countries may need to enhance social awareness through school and university curricula and offer tax incentives to boost social CR efforts. In societies aiming to strengthen businesses' social responsibility, promoting self-expression and traditional values via media could be effective. Additionally, welfare states, where more millennials support businesses' environmental responsibility, highlights the connection between social protection and environment protection. Policymakers should consider both social security and environmental sustainability in their strategies (see discussion in [Zimmermann and Graziano, 2020](#)).

#### *Limitations and suggestions for future research*

In discussing the unsupported findings, we have emphasized some possible directions for further research, including a reevaluation of Inglehart's post-materialism thesis, testing the interaction between welfare socialism and political ideology, examining media coverage of environmental news, exploring multisystem influences in a single model and applying qualitative methods. Additionally, the limitations of our study present opportunities for further research.

A definite strength of this study is its multi-society design and the inclusion of a significantly greater number of societies than previous cross-cultural studies on CR, which makes our global, business-focused data rare. Accordingly, we encourage other CR researchers to form global teams to generate similar large databases for a deeper understanding of business-responsibility phenomena worldwide. Further large-scale studies are needed to confirm and expand our findings regarding the influences of macro-systems on CR attitudes. Future research should also consider other cultural and structural factors, such as flexibility-monumentalism ([Minkov and Kaasa, 2022](#)) and the Environmental Performance Index ([Wolf et al., 2022](#)), which may shed different lights on the variance of CR attitudes across societies.

A limitation of our study is that our data was attitudinal in nature (i.e. degree of agreement) without explicitly testing the link between attitudes and behaviors. While previous research has shown a strong link between attitudes and behaviors (e.g. [Ajzen et al., 2018](#)), future

longitudinal research is needed to test the assumption that knowing the attitudes of future business leaders toward CR will help to predict their subsequent CR actions. Another limitation is that, while we controlled for gender and found it significant, investigating gender influence was beyond our study's scope. Future research could explore the impact of gender using alternative gender-role variable, such as gender role orientations (Terpstra-Tong *et al.*, 2022) and control for other individual-level variables, such as socioeconomic status and multiculturalism (Fitzsimmons *et al.*, 2017; Vora *et al.*, 2019), to achieve more precise findings.

Regarding survival/self-expression values, we found significance for our survival/self-expression values – social CR hypothesis, but the effect size was small (0.086,  $p < 0.05$ ) compared to that for the survival/self-expression values-economic CR relationship ( $-0.370$ ,  $p < 0.001$ ). Future studies could explore whether other cultural influences, such as societal self-reliance values (using Triandis and Gelfand (1998) horizontal individualism scale), can predict attitudes toward CR. Alternatively, future research could test the individuals' self-reliance values (Schaumberg and Flynn, 2017) on their CR attitudes.

Finally, our study does not purport to state what the CR attitudes of these respondents are today, but it does provide an insight into where values research indicates their current thinking should be. As previously noted, recent research using SVS data differentiates two types of values stability: rank-order stability and mean-level stability, with rank-order stability being more resilient than the latter. For our study, the rank-order stability perspective is the more pertinent because investing in CR involves making trade-off decisions based on decision makers' values priorities (rank-orderings) and judgments regarding organizational resources. Based on values stability research, we can conclude that millennial-students' CR attitudes will likely extend to their current work settings. Thus, while we would like to be able to definitively predict the future, we must accept providing the trends that we have found, which offer insights into the future business leaders' perspectives on CR. We also acknowledge that our data did not capture the impact of the significant global chrono events in recent decades, such as the Global Financial Crisis, the MeToo movement and the COVID pandemic, which could have influenced people's CR attitudes in the business world. Further research employing a multi-society and multilevel research design will be necessary to validate and extend our research findings.

## Conclusion

This is a unique study. It spanned 28 societies. It assessed over 3,500 millennial-aged respondents on their attitudes toward CR following the formative years of their adolescence. Thus, our large multi-society empirical study on CR attitudes proposes that this systematic investigation of the CR attitudes of this generation provides strong evidence that taking a more holistic, multidisciplinary approach is necessary to understand the attitudes of those of this generation. We believe that the framework proposed in this paper should help to further bridge discussions between management and educators/trainers to create an impetus to explore, and hopefully better manage, the culture- and structure-based differences across societies.

However, the exploration of the issues identified in the framework proposed in this study are far from complete. A challenge for future researchers will be to collect data directly from managers and business professionals across a wide range of societies to provide a clearer understanding of CR attitudes and behaviors in the business world. Particularly, future multi-society studies emphasizing the impact that the various system levels (e.g. exo, chrono) have on CR will be crucial to fully understand the process.

## References

- Abramson, L., Daniel, E. and Knafo-Noam, A. (2018), "The role of personal values in children's costly sharing and non-costly giving", *Journal of Experimental Child Psychology*, Vol. 165, pp. 117-134, doi: [10.1016/j.jecp.2017.03.007](https://doi.org/10.1016/j.jecp.2017.03.007).

- 
- Aguinis, H. and Glavas, A. (2012), "What we know and don't know about corporate social responsibility: a review and research agenda", *Journal of Management*, Vol. 38 No. 4, pp. 932-968, doi: [10.1177/0149206311436079](https://doi.org/10.1177/0149206311436079).
- Aguinis, H. and Glavas, A. (2019), "On corporate social responsibility, sensemaking, and the search for meaningfulness through work", *Journal of Management*, Vol. 45 No. 3, pp. 1057-1086, doi: [10.1177/0149206317691575](https://doi.org/10.1177/0149206317691575).
- Ajzen, I., Fishbein, M., Lohmann, S. and Albarracín, D. (2018), "The influence of attitudes on behavior", in *The Handbook of Attitudes*, 2nd ed., Routledge, pp. 197-255.
- Athanasopoulou, A. and Selsky, J.W. (2015), "The social context of corporate social responsibility: enriching research with multiple perspectives and multiple levels", *Business and Society*, Vol. 54 No. 3, pp. 322-364, doi: [10.1177/0007650312449260](https://doi.org/10.1177/0007650312449260).
- Aoyagi-Usui, M., Vinken, H. and Kuribayashi, A. (2003), "Pro-environmental attitudes and behaviors: an international comparison", *Human Ecology Review*, Vol. 10, pp. 23-31.
- Berry, J.W. (2018), "Ecocultural perspective on human behaviour", in Uskul, A. and Oishi, S. (Eds), *Socio-Economic Environment and Human Psychology*, Oxford University Press, Oxford, pp. 1-18.
- Blancheton, B. and Chhorn, D. (2021), "Government intervention, institutional quality, and income inequality: evidence from asia and the pacific, 1988-2014", *Asian Development Review*, Vol. 38 No. 1, pp. 176-206, doi: [10.1162/adev\\_a\\_00162](https://doi.org/10.1162/adev_a_00162).
- Boer, D. and Fischer, R. (2013), "How and when do personal values guide our attitudes and sociality? Explaining cross-cultural variability in attitude-value linkages", *Psychological Bulletin*, Vol. 139 No. 5, pp. 1113-1147, doi: [10.1037/a0031347](https://doi.org/10.1037/a0031347).
- Bohman, A. and Miklikowska, M. (2020), "Does classroom diversity improve intergroup relations? Short- and long-term effects of classroom diversity for cross-ethnic friendships and anti-immigrant attitudes in adolescence", *Group Processes and Intergroup Relations*, Vol. 24 No. 8, pp. 1372-1390, doi: [10.1177/1368430220941592](https://doi.org/10.1177/1368430220941592).
- Brammer, S., Branicki, L. and Linnenluecke, M.K. (2020), "COVID-19, societalization, and the future of business in society", *Academy of Management Perspectives*, Vol. 34 No. 4, pp. 493-507, doi: [10.5465/amp.2019.0053](https://doi.org/10.5465/amp.2019.0053).
- Branzei, O. and Vertinsky, I. (2002), "Eco-sustainability orientation in China and Japan: differences between proactive and reactive firms", in Sharma, S. and Starik, M. (Eds), *Research in Corporate Sustainability: The Evolving Theory and Practice of Organizations in the Natural Environment*, Edward Elgar, Northampton MA, pp. 85-122.
- Brislin, R.W. (1986), "The wording and translation of research instruments", in Lonner, W.J. and Berry, J.W. (Eds), *Field Methods in Cross-Cultural Research*, Sage, CA, pp. 137-164.
- Bronfenbrenner, U. (2005), *Making Human Beings Human: Bioecological Perspectives on Human Development*, Sage, Thousand Oaks, CA.
- Bronfenbrenner, U. and Morris, P.A. (2007), "The bioecological model of human development", *Handbook of child psychology*, Vol. 1, pp. 1-40.
- Campbell, T. (1981), *Seven Theories of Human Society*, Oxford University Press, Oxford.
- Capra, F. and Jakobsen, O.D. (2017), "A conceptual framework for ecological economics based on systemic principles of life", *International Journal of Social Economics*, Vol. 44 No. 6, pp. 831-844, doi: [10.1108/ijse-05-2016-0136](https://doi.org/10.1108/ijse-05-2016-0136).
- Carroll, A.B. (1979), "A three-dimensional conceptual model of corporate performance", *Academy of Management Review*, Vol. 4, pp. 497-505, doi: [10.5465/amr.1979.4498296](https://doi.org/10.5465/amr.1979.4498296).
- Clark, T.P., Smolski, A.R., Allen, J.S., Hedlund, J. and Sanchez, H. (2022), "Capitalism and sustainability: an exploratory content analysis of frameworks in environmental political economy", *Social Currents*, Vol. 9 No. 2, pp. 159-179, doi: [10.1177/23294965211043548](https://doi.org/10.1177/23294965211043548).
- Cobb, A.J. (2016), "How firms shape income inequality: stakeholder power, executive decision making, and the structuring of employment relationships", *Academy of Management Review*, Vol. 41 No. 2, pp. 324-348, doi: [10.5465/amr.2013.0451](https://doi.org/10.5465/amr.2013.0451).

- Cox, P.L., Friedman, B.A. and Tribunella, T. (2011), "Relationships among cultural dimensions, national gross domestic product and environmental sustainability", *Journal of Applied Business and Economics*, Vol. 12 No. 6, pp. 46-53.
- Cullen, J.B., Parboteeah, K.P. and Hoegl, M. (2004), "Cross-national differences in managers' willingness to justify ethically suspect behaviors: a test of institutional anomie theory", *Academy of Management Journal*, Vol. 47 No. 1, pp. 411-421, doi: [10.5465/20159590](https://doi.org/10.5465/20159590).
- De Groot, J. and Steg, L. (2007), "Value orientation and environmental beliefs in five countries: validity of an instrument to measure egoistic, altruistic and biospheric value orientations", *Journal of Cross-Cultural Psychology*, Vol. 38 No. 3, pp. 318-332, doi: [10.1177/0022022107300278](https://doi.org/10.1177/0022022107300278).
- Dietz, T., Kalof, L. and Stern, P.C. (2002), "Gender, values and environmentalism", *Social Science Quarterly*, Vol. 83 No. 1, pp. 353-364, doi: [10.1111/1540-6237.00088](https://doi.org/10.1111/1540-6237.00088).
- Dunlap, R. and Mertig, A. (1997), "Global environmental concern: an anomaly for postmaterialism", *Social Science Quarterly*, Vol. 78 No. 1, pp. 24-29.
- D'Alessandro, S. and Fanelli, D. (2015), "The role of income distribution in the diffusion of corporate social responsibility", *Metroeconomica*, Vol. 66 No. 2, pp. 187-212, doi: [10.1111/meca.12066](https://doi.org/10.1111/meca.12066).
- Egri, C.P. and Hornal, R.C. (2002), "Strategic environmental human resource management and perceived organizational performance: an exploratory study of the Canadian manufacturing sector", in Sharma, S. and Starik, M. (Eds), *Research in Corporate Sustainability: The Evolving Theory and Practice of Organizations in the Natural Environment*, Edward Elgar, Northampton MA, pp. 205-236.
- Egri, C.P., Ralston, D.A., Milton, L., Naoumova, I., Palmer, I., Ramburuth, P., Wangenheim, F., Fu, P., Kuo, M.H., Ansari, M., de la Garza Carranza, M.T., Riddle, L., Girson, I., Elenkov, D., Dabic, M., Butt, A., Srinivasan, N., Potocan, V.V., Furrer, O., Hallinger, P., Dalagic, T., Thanh, H.V., Richards, M. and Rossi, A.M. (2004), "Managerial perspectives on corporate environmental and social responsibilities in 22 Countries", in Weaver, K.M. (Ed.), *Best Papers Proceedings of the Academy of Management Meeting*, New Orleans, pp. C1-C6.
- Elkington, J. (2018), "25 years ago I coined the phrase 'triple bottom line.' Here's why it's time to rethink it", *Harvard Business Review*, Vol. 25, pp. 2-5.
- Esping-Andersen, G. (1990), *The Three Worlds of Welfare Capitalism*, Princeton University Press, Cambridge.
- Fitzsimmons, S.R., Liao, Y. and Thomas, D.C. (2017), "From crossing cultures to straddling them: an empirical examination of outcomes for multicultural employees", *Journal of International Business Studies*, Vol. 48 No. 1, pp. 63-89, doi: [10.1057/s41267-016-0053-9](https://doi.org/10.1057/s41267-016-0053-9).
- Ford, R.C. and Richardson, W.D. (1994), "Ethical decision making: a review of the empirical literature", *Journal of Business Ethics*, Vol. 13 No. 3, pp. 205-221, doi: [10.1007/bf02074820](https://doi.org/10.1007/bf02074820).
- Fu, P.P. and Yukl, G. (2000), "Perceived effectiveness of influence tactics in the United States and China", *The Leadership Quarterly*, Vol. 11 No. 2, pp. 251-266, doi: [10.1016/s1048-9843\(00\)00039-4](https://doi.org/10.1016/s1048-9843(00)00039-4).
- Fukukawa, K., Shafer, W.E. and Lee, G.M. (2007), "Values and attitudes toward social and environmental accountability: MBA students", *Journal of Business Ethics*, Vol. 71 No. 4, pp. 381-394, doi: [10.1007/s10551-005-3893-y](https://doi.org/10.1007/s10551-005-3893-y).
- Furrer, O., Egri, C.P., Ralston, D.A., Danis, W., Reynaud, E., Naoumova, I., Molteni, M., Starkus, A., Darder, F.L., Dabic, M. and Furrer-Perrinjaquet, A. (2010), "Attitudes toward corporate responsibilities in Western Europe and in Central and East Europe", *Management International Review*, Vol. 50 No. 3, pp. 379-398, doi: [10.1007/s11575-010-0034-3](https://doi.org/10.1007/s11575-010-0034-3).
- García-Castro, J.D., Willis, G.B. and Rodríguez-Bailón, R. (2019), "I know people who can and who cannot: a measure of the perception of economic inequality in everyday life", *The Social Science Journal*, Vol. 56 No. 4, pp. 599-608, doi: [10.1016/j.soscij.2018.09.008](https://doi.org/10.1016/j.soscij.2018.09.008).
- Glasman, L.R. and Albarracín, D. (2006), "Forming attitudes predict future behavior: a meta-analysis of the attitude-behavior relation", *Psychological Bulletin*, Vol. 132 No. 5, pp. 778-822, doi: [10.1037/0033-2909.132.5.778](https://doi.org/10.1037/0033-2909.132.5.778).

- 
- Gouveia, V.V., Vione, K.C., Milfont, T.L. and Fischer, R. (2015), "Patterns of value change during the life span: some evidence from a functional approach to values", *Personality and Social Psychology Bulletin*, Vol. 41 No. 9, pp. 1276-1290, doi: [10.1177/0146167215594189](https://doi.org/10.1177/0146167215594189).
- Haller, M. and Hadler, M. (2008), "Dispositions to act in favor of the environment: fatalism and readiness to make sacrifices", *Sociological Forum*, Vol. 23 No. 2, pp. 281-311, doi: [10.1111/j.1573-7861.2008.00059.x](https://doi.org/10.1111/j.1573-7861.2008.00059.x).
- Hanges, P.L. (2004), "Response bias correction procedure used in GLOBE", in House, R.J., Hanges, P. J., Javidan, M., Dorfman, P.W. and Gupta, V. (Eds), *Culture, Leadership, and Organizations: The GLOBE Study of 62 Societies*, Sage, Thousand Oaks, CA, pp. 737-751.
- Hassoun, N. (2012), *Globalization and Global Justice: Shrinking Distance, Expanding Obligations*, Cambridge University Press, Cambridge.
- Hupp, S. and Jewell, J. (2020), "Theories of adolescent moral development", in *The Encyclopedia of Child and Adolescent Development*, 1st ed., John Wiley & Sons, doi: [10.1002/9781119171492](https://doi.org/10.1002/9781119171492).
- Idemudia, U. and Osayande, N. (2018), "Assessing the effect of corporate social responsibility on community development in the Niger Delta: a corporate perspective", *Community Development Journal*, Vol. 53 No. 1, pp. 155-172.
- Inglehart, R. (1997), *Modernization and Postmodernization: Cultural, Economic and Political Change in 43 Societies*, Princeton Press, Princeton, NJ.
- Inglehart, R. (2000), "Globalization and postmodern values", *The Washington Quarterly*, Vol. 23 No. 1, pp. 215-228, doi: [10.1162/016366000560665](https://doi.org/10.1162/016366000560665).
- Inglehart, R. and Baker, W. (2000), "Modernization, cultural change and the persistence of traditional values", *American Sociological Review*, Vol. 1 No. 1, pp. 19-51, February, doi: [10.2307/2657288](https://doi.org/10.2307/2657288).
- Inglehart, R. and Welzel, C. (2005), *Modernization, Cultural Change, and Democracy: The Human Development Sequence*, Cambridge University Press, New York.
- Jackson, T. and Victor, P.A. (2019), "Unraveling the claims for (and against) green growth", *Science*, Vol. 366 No. 6468, pp. 950-951, doi: [10.1126/science.aay0749](https://doi.org/10.1126/science.aay0749).
- Jamali, D., Jain, T., Samara, G. and Zoghbi, E. (2020), "How institutions affect CSR practices in the Middle East and North Africa: a critical review", *Journal of World Business*, Vol. 55 No. 5, 101127, doi: [10.1016/j.jwb.2020.101127](https://doi.org/10.1016/j.jwb.2020.101127).
- Kaly, U.L., Pratt, C. and Mitchell, J. (2005), "The environmental vulnerability index (EVI) 2004", *SOPAC Technical Report 384*, available at: <http://islands.unep.ch/EVI%202004%20Technical%20Report.pdf>
- Klugman, J., Rodríguez, F. and Choi, H. (2011), "The HDI: new controversies, old critiques", Human Development Research Paper No. 2011/01, available at: [http://hdr.undp.org/en/reports/global/hdr2011/papers/HDRP\\_2011\\_01.pdf](http://hdr.undp.org/en/reports/global/hdr2011/papers/HDRP_2011_01.pdf)
- Kurz, C., Li, G. and Vine, D.J. (2019), "Are millennials different?", *Handbook of US Consumer Economics*, pp. 193-232, doi: [10.1016/b978-0-12-813524-2.00008-1](https://doi.org/10.1016/b978-0-12-813524-2.00008-1).
- Lartey, T., Yirenkyi, D.O., Adomako, S., Danso, A., Amankwah-Amoah, J. and Alam, A. (2020), "Going green, going clean: lean-green sustainability strategy and firm growth", *Business Strategy and the Environment*, Vol. 29 No. 1, pp. 118-139, doi: [10.1002/bsc.2353](https://doi.org/10.1002/bsc.2353).
- Maignan, I. and Ferrell, O.C. (2003), "Nature of corporate responsibilities: perspectives from American, French, and German consumers", *Journal of Business Research*, Vol. 56 No. 1, pp. 55-67, doi: [10.1016/s0148-2963\(01\)00222-3](https://doi.org/10.1016/s0148-2963(01)00222-3).
- Marquart-Pyatt, S.T. (2012), "Environmental concerns in cross-national context: how do mass publics in central and Eastern Europe compare with other regions of the world?", *Czech Sociological Review*, Vol. 48 No. 3, pp. 641-666, doi: [10.13060/00380288.2012.48.3.03](https://doi.org/10.13060/00380288.2012.48.3.03).
- Martin, K.D., Cullen, J.B., Johnson, J.L. and Parboteeah, K.P. (2007), "Deciding to bribe: a cross-level analysis of firm and home country influences on bribery activity", *Academy of Management Journal*, Vol. 50 No. 6, pp. 1401-1422, doi: [10.5465/amj.2007.28179462](https://doi.org/10.5465/amj.2007.28179462).

- Matten, D. and Moon, J. (2008), “‘Implicit’ and ‘explicit’ CSR: a comparative understanding of corporate social responsibility”, *Academy of Management Review*, Vol. 33 No. 2, pp. 404-424, doi: [10.5465/amr.2008.31193458](https://doi.org/10.5465/amr.2008.31193458).
- Matten, D. and Moon, J. (2020), “Reflections on the 2018 decade award: the meaning and dynamics of corporate social responsibility”, *Academy of Management Review*, Vol. 45 No. 1, pp. 7-28, doi: [10.5465/amr.2019.0348](https://doi.org/10.5465/amr.2019.0348).
- McKinsey and Company (2016), “Poorer than their parents: flat or falling incomes in advanced economies”, available at: <https://www.mckinsey.com/~media/mckinsey/featured%20insights/Employment%20and%20Growth/Poorer%20than%20their%20parents%20A%20new%20perspective%20on%20income%20inequality/MGI-Income%20-Inequality-Executive-summary-July-2016.ashx>
- Miklikowska, M. (2017), “Development of anti-immigrant attitudes in adolescence: the role of parents, peers, intergroup friendships, and empathy”, *British Journal of Psychology*, Vol. 108 No. 3, pp. 626-648, doi: [10.1111/bjop.12236](https://doi.org/10.1111/bjop.12236).
- Milfont, T.L., Milojev, P. and Sibley, C.G. (2016), “Values stability and change in adulthood: a 3-year longitudinal study of rank-order stability and mean-level differences”, *Personality and Social Psychology Bulletin*, Vol. 42 No. 5, pp. 572-588, doi: [10.1177/0146167216639245](https://doi.org/10.1177/0146167216639245).
- Minkov, M. and Kaasa, A. (2022), “Do dimensions of culture exist objectively? A validation of the revised Minkov-Hofstede model of culture with World Values Survey items and scores for 102 countries”, *Journal of International Management*, Vol. 28 No. 4, 100971, doi: [10.1016/j.intman.2022.100971](https://doi.org/10.1016/j.intman.2022.100971).
- Miska, C., Szócs, I. and Schiffinger, M. (2018), “Culture’s effects on corporate sustainability practices: a multi-domain and multi-level view”, *Journal of World Business*, Vol. 53 No. 2, pp. 263-279, doi: [10.1016/j.jwb.2017.12.001](https://doi.org/10.1016/j.jwb.2017.12.001).
- Movahed, M. (2023), “Varieties of capitalism and income inequality”, *International Journal of Comparative Sociology*, Vol. 64 No. 6, pp. 621-657, doi: [10.1177/00207152231174158](https://doi.org/10.1177/00207152231174158).
- Muckenhuber, J., Burkert, N., Großschädl, F. and Freidl, W. (2014), “Income inequality as a moderator of the relationship between psychological job demands and sickness absence, in particular in men: an international comparison of 23 countries”, *PLoS One*, Vol. 9 No. 2, e86845, doi: [10.1371/journal.pone.0086845](https://doi.org/10.1371/journal.pone.0086845).
- North, D.C. (1991), “Institutions, ideology, and economic performance”, *Cato Journal*, Vol. 11, p. 477.
- Parboteeah, P.K., Hoegl, M. and Cullen, J. (2009), “Religious dimensions and work obligation: a country institutional profile model”, *Human Relations*, Vol. 62 No. 1, pp. 119-148, doi: [10.1177/0018726708099515](https://doi.org/10.1177/0018726708099515).
- Pollard, M.Q. (2023), “China avoids climate change discussion despite extreme weather”, available at: <https://www.reuters.com/business/environment/china-avoids-climate-change-discussion-despite-extreme-weather-2023-08-11/>
- Piotrowski, M., Yoshida, A., Johnson, L. and Wolford, R. (2019), “Gender role attitudes: an examination of cohort effects in Japan”, *Journal of Marriage and Family*, Vol. 81 No. 4, pp. 863-884, doi: [10.1111/jomf.12577](https://doi.org/10.1111/jomf.12577).
- Ralston, D.A., Russell, C.J., Terpstra-Tong, J., Trevino, L.J., Ramburuth, P., Richards, M., Casado, T., de la Garza Carranza, M.T., Naoumova, I., Li, Y., Srinivasan, N., Lenartowicz, T., Furrer, O., Fu, P.P., Pekerti, A., Dabic, M., Palmer, I., Kangasniemi, M., Szabo, E., Ruiz Gutiérrez, J., Reynaud, E., Darder, F.L., Maria Rossi, A., von Wangenheim, F., Molteni, M., Starkus, A., Mockaitis, A., Butt, A., Girson, I., Dharmasiri, A.S., Kuo, M.H., Dalgic, T., Thanh, H.V., Moon, Y.I., Hallinger, P., Potocan, V.V., Nicholson, J., Milton, L., Weber, M., Lee, C.H., Ansari, M., Pla-Barber, J., Jesuino, J.C., Alas, R., Danis, W., Chia, H.B., Fang, Y., Elenkov, D. and Brock, D.M. (2022), “Are societal-level values still relevant measures in the twenty-first century businessworld? A 39-society analysis”, *Asia Pacific Journal of Management*, Vol. 41 No. 1, pp. 1-44, doi: [10.1007/s10490-022-09822-z](https://doi.org/10.1007/s10490-022-09822-z).
- Raudenbush, S.W. and Bryk, A.S. (2002), *Hierarchical Linear Models. Applications and Data Analysis Methods*, 2nd ed., Sage Publications, Thousand Oaks, CA.

- 
- Ruiter, S. and De Graaf, N.D. (2006), "National context, religiosity, and volunteering: results from 53 countries", *American Sociological Review*, Vol. 71 No. 2, pp. 191-210, doi: [10.1177/000312240607100202](https://doi.org/10.1177/000312240607100202).
- Rupp, D.E., Aguinis, H., Siegel, D., Glavas, A. and Aguilera, R.V. (2024), "Corporate social responsibility research: an ongoing and worthwhile journey", *Academy of Management Collections*, Vol. 3 No. 1, pp. 1-16, doi: [10.5465/amc.2022.0006](https://doi.org/10.5465/amc.2022.0006).
- Sagiv, L. and Schwartz, S.H. (2022), "Personal values across cultures", *Annual Review of Psychology*, Vol. 73 No. 1, pp. 517-546, doi: [10.1146/annurev-psych-020821-125100](https://doi.org/10.1146/annurev-psych-020821-125100).
- Schaumberg, R.L. and Flynn, F.J. (2017), "Self-reliance: a gender perspective on its relationship to communalism and leadership evaluations", *Academy of Management Journal*, Vol. 60 No. 5, pp. 1859-1881, doi: [10.5465/amj.2015.0018](https://doi.org/10.5465/amj.2015.0018).
- Schultz, P.W., Gouveia, V., Cameron, L., Tankha, G., Schmuck, P. and Franeck, M. (2005), "Values and their relationship to environmental concern and conservation behavior", *Journal of Cross-Cultural Psychology*, Vol. 36 No. 4, pp. 457-475, doi: [10.1177/0022022105275962](https://doi.org/10.1177/0022022105275962).
- Schwartz, S.H. (1992), "Universals in the content and structure of values: theory and empirical tests in 20 countries", in Zanna, M. (Ed.), *Advances in Experimental Social Psychology*, Academic Press, New York, pp. 1-65.
- Shao, H., Liu, M., Shao, Q., Sun, X., Wu, J., Xiang, Z. and Yang, W. (2014), "Research on eco-environmental vulnerability evaluation of the anning river basin in the upper reaches of the yangtze river", *Environmental Earth Sciences*, Vol. 72 No. 5, pp. 1555-1568, doi: [10.1007/s12665-014-3060-9](https://doi.org/10.1007/s12665-014-3060-9).
- Singh, S.K., Del Giudice, M., Cooper, S.C. and Castellano, S. (2023), "Guest editorial: microfoundations of CSR and sustainable performance", *Cross Cultural and Strategic Management*, Vol. 30 No. 1, pp. 1-4, doi: [10.1108/CCSM-02-2023-251](https://doi.org/10.1108/CCSM-02-2023-251).
- Smith, P.B. and Bond, M.H. (2019), "Cultures and persons: characterizing national and other types of cultural difference can also aid our understanding and prediction of individual variability", *Frontiers in Psychology*, Vol. 10, p. 2689, doi: [10.3389/fpsyg.2019.02689](https://doi.org/10.3389/fpsyg.2019.02689).
- Terpstra-Tong, J., Ralston, D.A., Treviño, L., Karam, C., Furrer, O., Froese, F., Tjemkes, B., Darder, F. L., Richards, M., Dabic, M., Li, Y., Fu, P., Molteni, M., Palmer, I., Tučková, Z., Szabo, E., Poeschl, G., Hemmert, M., Butt, A., de la Garza, T., Susniene, D., Suzuki, S., Srinivasan, N., Gutierrez, J.R., Ricard, A., Buzády, Z., Paparella, L.S., Morales, O., Naidoo, V., Kangasniemi-Haapala, M., Dalgic, T., Alas, R., Potocan, V., Dharmasiri, A.S., Fang, Y., Burns, C. and Crowley-Henry, M. (2022), "The impact of gender-role-orientations on subjective career success: a multilevel study of 36 societies", *Journal of Vocational Behavior*, Vol. 138, 103773, doi: [10.1016/j.jvb.2022.103773](https://doi.org/10.1016/j.jvb.2022.103773).
- Tilt, B. and Xiao, Q. (2010), "Media coverage of environmental pollution in the People's Republic of China: responsibility, cover-up and state control", *Media, Culture and Society*, Vol. 32 No. 2, pp. 225-245, doi: [10.1177/0163443709355608](https://doi.org/10.1177/0163443709355608).
- Toth, G. and Szigeti, C. (2016), "The historical ecological footprint: from over-population to over-consumption", *Ecological Indicators*, Vol. 60, pp. 283-291, doi: [10.1016/j.ecolind.2015.06.040](https://doi.org/10.1016/j.ecolind.2015.06.040).
- Triandis, H.C. (1995), *Individualism and Collectivism*, 1st ed., Routledge, doi: [10.4324/9780429499845](https://doi.org/10.4324/9780429499845).
- Triandis, H.C. and Gelfand, M.J. (1998), "Converging measurement of horizontal and vertical individualism and collectivism", *Journal of Personality and Social Psychology*, Vol. 74 No. 1, pp. 118-128, doi: [10.1037/0022-3514.74.1.118](https://doi.org/10.1037/0022-3514.74.1.118).
- Tsui, A.S., Enderle, G. and Jiang, K. (2018), "Income inequality in the United States: reflections on the role of corporations", *Academy of Management Review*, Vol. 43 No. 1 pp. 156-168, doi: [10.5465/amr.2016.0527](https://doi.org/10.5465/amr.2016.0527).
- Varadarajan, R. and Kaul, R. (2018), "Doing well by doing good innovations: alleviation of social problems in emerging markets through corporate social innovations", *Journal of Business Research*, Vol. 86, pp. 225-233, doi: [10.1016/j.jbusres.2017.03.017](https://doi.org/10.1016/j.jbusres.2017.03.017).



- Vecchione, M., Schwartz, S., Alessandri, G., Döring, A.K., Castellani, V. and Caprara, M.G. (2016), "Stability and change of basic personal values in early adulthood: an 8-year longitudinal study", *Journal of Research in Personality*, Vol. 63, pp. 111-122, doi: [10.1016/j.jrp.2016.06.002](https://doi.org/10.1016/j.jrp.2016.06.002).
- Vora, D., Martin, L., Fitzsimmons, S.R., Pekerti, A.A., Lakshman, C. and Raheem, S. (2019), "Multiculturalism within individuals: a review, critique, and agenda for future research", *Journal of International Business Studies*, Vol. 50 No. 4, pp. 499-524, doi: [10.1057/s41267-018-0191-3](https://doi.org/10.1057/s41267-018-0191-3).
- Watanabe, T. (2019), "Tax competition and strategic delegation with interregional asymmetries in capital endowment and income inequality", *Theoretical Economics Letters*, Vol. 09 No. 5, pp. 1434-1446, doi: [10.4236/tel.2019.95092](https://doi.org/10.4236/tel.2019.95092).
- Wolf, M.J., Emerson, J.W., Esty, D.C., de Sherbinin, A. and Wendling, Z.A. (2022), *2022 Environmental Performance Index*, Yale Center for Environmental Law & Policy. epi.yale.edu, New Haven, CT.
- Yang, D.T., Zhang, J. and Zhou, S. (2012), "Why are saving rates so high in China?", in *Capitalizing China*, University of Chicago Press, pp. 249-278.
- Zhao, X., Wu, C., Chen, C.C. and Zhou, Z. (2022), "The influence of corporate social responsibility on incumbent employees: a meta-analytic investigation of the mediating and moderating mechanisms", *Journal of Management*, Vol. 48 No. 1, pp. 114-146, doi: [10.1177/0149206320946108](https://doi.org/10.1177/0149206320946108).
- Zimmermann, K. and Graziano, P. (2020), "Mapping different worlds of eco-welfare states", *Sustainability*, Vol. 12 No. 5, p. 1819, doi: [10.3390/su12051819](https://doi.org/10.3390/su12051819).

## Appendix

### Corporate Responsibility (CR) Questionnaire

**INSTRUCTIONS:** Below are listed a variety of activities that businesses may choose to assume. We are interested in *your* views.

In the space before each item, write the number (1,2,3,4,5,6,7,8,9) that indicates the degree to which you agree or disagree that the business should engage in the activity described for that item. Try to distinguish as much as possible between the items by using all the numbers. You will, of course, need to use numbers more than once.

Strongly Agree	Moderately Agree		Neutral		Moderately Disagree		Strongly Disagree	
1	2	3	4	5	6	7	8	9

*I believe it is the duty of all businesses to:*

#### Economic CR

- always be concerned first about economic performance
- worry first and foremost about maximizing profits

#### Social CR

- contribute actively to the welfare of our community (discretionary)
- help solve social problems (discretionary)
- play a role in our society that goes beyond the mere generation of profits (discretionary)
- be committed to well-defined ethics principles (ethical)
- give priority to ethical principles over economic benefits (ethical)
- always submit to the principles defined by the regulatory system (legal)
- train their employees to act within the standards defined by the law (legal)

#### Environmental CR

- adopt formal programs to minimize the harmful impact of organizational activities on the environment
- assume total financial responsibility for environmental pollution caused by business activities
- devote resources to environmental protection even when economic profits are threatened
- minimize the environmental impact of all organizational activities
- pay the full financial cost of using energy and natural resources
- prevent environmental degradation caused by the pollution and depletion of natural resources

**Supplementary material**

The supplementary material for this article can be found online.

**Author Affiliations**

Jane L.Y. Terpstra Tong, Monash University Malaysia, Subang Jaya, Malaysia

David A. Ralston, University Fellows International Research Consortium, Ft. Myers, Florida, USA

Olivier Furrer, Department of Management, Université de Fribourg, Fribourg, Switzerland

Charlotte M. Karam, Telfer School of Management, University of Ottawa, Ottawa, Canada and American University of Beirut, Beirut, Lebanon

Carolyn Patricia Egri, Faculty of Business Administration, Simon Fraser University, Vancouver, Canada

Malika Richards, The Pennsylvania State University Berks, Reading, Pennsylvania, USA

Marina Dabić, University of Zagreb, Zagreb, Croatia

Emmanuelle Reynaud, Aix-Marseille Univ., IAE Aix Marseille, CERGAM, Aix-en-Provence, Puyricard, France

Pingping Fu, University of Nottingham, Ningbo, China

Ian Palmer, RMIT University, Melbourne, Australia

Narasimhan Srinivasan, University of Connecticut, Farmington, Connecticut, USA

Maria Teresa de la Garza Carranza, Instituto Tecnológico de Celaya, Celaya, Mexico

Arif Butt, Lahore University of Management Sciences, Lahore, Pakistan

Jaime Ruiz-Gutiérrez, Universidad de los Andes, Bogota, Colombia

Chay Hoon Lee, Seatrium Ltd, Singapore, Singapore

Irina Naoumova, Barney School of Business, University of Hartford, West Hartford, Connecticut, USA

Yong-Lin Moon, Seoul National University, Seoul, South Korea

Jose Pla-Barber, University of València, València, Spain

Mario Molteni, Catholic University of the Sacred Heart, Milan, Italy

Min Hsu Kuo, Yuan Ze University, Taoyuan, Taiwan

Tania Casado, University of São Paulo, São Paulo, Brazil

Yusuf M. Sidani, Olayan School of Business, American University of Beirut, Beirut, Lebanon

Audra Mockaitis, Maynooth University, Maynooth, Ireland

Laurie Milton, University of Calgary, Calgary, Canada

Luiza Zatorska, SGH Warsaw School of Economics, Warszawa, Poland

Beng Chia Ho, National University of Singapore, Singapore, Singapore

Modestas Gelbuda, ISM University of Management and Economics, Vilnius, Lithuania

Ruth Alas, Estonian Business School, Tallinn, Estonia

Wade Danis, Gustavson School of Business, University of Victoria, Victoria, Canada

**Corresponding author**

Jane L.Y. Terpstra Tong can be contacted at: [jane.tong@monash.edu](mailto:jane.tong@monash.edu)