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Published in: Journal of Cleaner Production

Link to article, DOI: 10.1016/j.jclepro.2018.12.107

Publication date: 2019

Document Version Peer reviewed version

Link back to DTU Orbit

*Citation (APA):* Rosati, F., & Faria, L. (2019). Addressing the SDGs in sustainability reports: The relationship with institutional factors. *Journal of Cleaner Production, 215*, 1312-1326. https://doi.org/10.1016/j.jclepro.2018.12.107

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# Addressing the SDGs in sustainability reports: The relationship with institutional factors

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#### Abstract

Organizations worldwide can play a significant role in the advancement of the Sustainable Development Agenda. However, there might be various factors influencing organizations' decisions to address sustainability issues. This study aims to conduct an analysis of the country-level institutional factors related to the decision to address the Sustainable Development Goals in sustainability reports. The research is undertaken by considering 27 institutional factors belonging to six different national institutional systems, and it relies on data from 2,413 sustainability reports published by organizations located in 90 different countries. The results show that organizations reporting on the Sustainable Development Goals are more likely to be located in countries with higher levels of climate change vulnerability, national corporate social responsibility, company spending on tertiary education, indulgence and individualism, and lower levels of market coordination, employment protection, power distance and long-term orientation. The study contributes to the literature on sustainable development and sustainability reporting by investigating the institutional factors related to addressing the Sustainable Development Goals in sustainability reports. The study can be useful for managers, investors and decision makers to develop country-specific strategies, investment plans, and policies to support organizations in contributing to the Sustainable Development Goals.

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#### **Keywords**

Sustainable Development Goals; Sustainability reporting; SDG reporting; Institutional factors; Country-level analysis.

#### **1** Introduction

In 2015, the General Assembly of the United Nations adopted the 2030 Agenda for Sustainable Development as a "plan of action for people, planet and prosperity", which "seeks to strengthen universal peace in larger freedom" (United Nations General Assembly, 2015, p.1). As part of the 2030 Agenda for Sustainable Development, the United Nations announced 17 Sustainable Development Goals (SDGs) and 169 targets, which, according to the UN Secretary-General Ban Kimoon, represent not only a vision shared by all humanity but also a concrete to-do list and blueprint for success for all human beings. The SDGs range from ending world poverty to undertaking urgent action to combat climate change and its impacts by 2030, balancing economic, social and environmental development.

Organizations worldwide can play a significant role for the advancement of the Sustainable Development Agenda, by integrating SDGs into their strategies and operations and providing new solutions to global sustainable development challenges (United Nations Global Compact, 2018a). Conversely, the need for new solutions to address global challenges can generate new opportunities for organizations to innovate their value propositions, reach new customer segments, collaborate with new partners, and develop new and more sustainable business models (Bocken et al., 2014; Boons and Lüdeke-Freund, 2013; Geissdoerfer et al., 2018; Morioka et al., 2017).

However, there might be various external and internal factors influencing organizations' decisions to address sustainability issues and report on their sustainability commitments (Hahn and Kühnen, 2013). Although many scholars have analysed the influence of both internal and external factors on sustainability reporting, there is no agreement regarding which dimension is the dominant; therefore, it is likely that both dimensions can play a significant role (Liu and Anbumozhi, 2009). This study particularly contributes to the understanding of the relationship between an organization's willingness to address the SDGs in its sustainability report and various external institutional factors related to the organization's country of origin. Investigating these factors could have important implications for

managers, investors and decision makers (Halkos and Skouloudis, 2016; Jensen and Berg, 2012) who are responsible for designing country-specific strategies, investments, and policies to support SDG reporting and implementation (Global Reporting Initiative, 2016a; United Nations Global Compact, 2018b, 2018c). Investigating these factors might also be relevant for other stakeholders, such as citizens, societal leaders, educators, scholars, environmental authorities, non-profit organizations and international organizations committed to the achievement of the SDGs (Giannetti et al., 2018).

This research is conducted by considering 27 institutional factors belonging to six different institutional systems, and it relies on data from 2,413 sustainability reports published by organizations located in 90 different countries.

The following section reviews and discusses the literature on corporate sustainability, the SDGs and SDG reporting, and it illustrates the research hypotheses of the authors on the relationship between SDG reporting and various country-level institutional factors. Section 3 presents the research methods and dataset, and Section 4 provides the results of the study. The final sections present a summary of the study discussions (Section 5), limitations and recommendations for future research (Section 6), and conclusions (Section 7).

#### **2** Literature Review

#### 2.1 Corporate Sustainability and the SDGs

Corporate sustainability has become vital for organizations' long-term success (Eccles et al., 2012; Ortiz-de-Mandojana and Bansal, 2016), and it has been increasingly studied in the academic literature in recent decades (Linnenluecke et al., 2009; Russell et al., 2007). Corporate sustainability generally refers to the integration of the triple bottom line of financial profitability, environmental protection and social responsibility into organizations' core purpose and activities (Elkington, 1998; Lo, 2010; Schaltegger et al., 2013). The concept is thus closely related to the concepts of sustainable development (Dyllick and Hockerts, 2002; Lozano, 2015, 2011) and corporate social responsibility (CSR) (see Montiel, 2008), for which it is sometimes considered a synonym (for a review on this subject see Ebner and Baumgartner, 2006), an outgrowth (e.g., Christofi *et al.*, 2012), or even an evolution (e.g., Taylor, 2013). In this regard, Dyllick and Hockerts (2002, p. 131), building upon the definition of sustainable development (see World Commission on Environment and Development, 1987), defined corporate sustainability as "meeting the needs of a firm's direct and indirect stakeholders (such as shareholders, employees, clients, pressure groups, communities, etc.), without compromising its ability to meet the needs of future stakeholders as well". In this study, the authors follow Dyllick and Hockerts' definition to apply the concept of sustainable development at the business level and build upon the considerations of current and future stakeholder needs as central elements of corporate sustainability. A shared expression of stakeholder needs is currently represented at the global level by the 17 SDGs and the associated 169 targets announced by the United Nations General Assembly (2015). As stated by the United Nations General Assembly (2015, p. 3), "[t]he goals and targets are the result of over two years of intensive public consultation and engagement with civil society and other stakeholders around the world, which paid particular attention to the voices of the poorest and most vulnerable". Thus, the SDGs aim to inspire the integration of sustainability into organizations operating in the most various geographical areas worldwide, addressing current and future stakeholder needs and contributing to the achievement of sustainable development for society at large (United Nations Global Compact, 2018b).

SDGs have already been studied within the corporate sustainability literature in relation to their role as a reference framework for assessing corporate sustainability (Topple et al., 2017), improving sustainability engagement (Schönherr et al., 2017), providing investment opportunities (Schramade, 2017), and designing sustainable business models (Morioka et al., 2018, 2017). The corporate sustainability literature also includes studies of the potential role of multinational enterprises (Kolk et al., 2017) and advertising and marketing companies (Jones et al., 2018) in the achievement of the sustainable development agenda and on the relationship existing between SDG attainment and organizational legitimacy (Donoher, 2017). Although many goals might still present issues regarding their performance measurements, operationalization and interlinkages across sectors, societal actors and countries (Hák et al., 2016; Stafford-Smith et al., 2017), the SDGs have already been linked to concepts such as industrial ecology and strategic management to support organizations to positively contribute to the SDGs while building competitive advantage (Sullivan et al., 2018).

Recently, three special issues have focused on the contribution of business to achieving the SDGs – one was published in *Transnational Corporations* (Witte and Dilyard, 2017), and two will be published in *Academy of Management Discoveries* (Howard-Grenville et al., 2017) and *Corporate Governance* (Pedersen et al., 2018). Moreover, academic conferences worldwide are increasingly focusing or including tracks on SDGs (e.g., the 16<sup>th</sup> Academy of Business in Society (ABIS) Annual Colloquium, the 2017 Annual Meeting of the Academy of Management, the 24<sup>th</sup> International Sustainable Development Research Society Conference).

The academic debate within the field of corporate sustainability is thus increasingly providing research contributions aimed at supporting and driving the incorporation of SDGs into business.

#### 2.2 Sustainability and SDG reporting

In this subsection, the authors present the emerging literature on SDG reporting and discuss the potential role of sustainability reporting in the advancement of the SDGs.

Sustainability reporting can be defined as the practice of reporting publicly on an organization's economic, environmental and/or social sustainability impacts (see also Global Reporting Initiative, 2016a). SDG reporting is thus defined in this study as the practice of reporting publicly on how an organization addresses the SDGs (see Global Reporting Initiative, 2018a; United Nations Global Compact, 2018c).

The United Nations Conference on Trade and Development report, reviewed by Gugler (2015), recognized that "[s]ustainability reporting initiatives are important because they help to align capital market signals with sustainable development and thereby to mobilize responsible investment in the SDGs" (United Nations Conference on Trade and Development, 2014, p. 162). Sustainability reporting can also have significant influences on corporate actions and strategies (see Adams, 2017) and, consequently, trigger the integration of SDGs into businesses. In addition, the lack of transparency and accountability can hinder progress towards the SDGs (Agarchand and Laishram, 2017; Anasi et al., 2018). Coherently, Bebbington and Unerman (2018) recently proposed an accounting research agenda for the SDGs by emphasizing the enabling role of accounting scholars and technologies for the implementation and achievement of the SDGs (see also Bowen et al., 2017).

According to these studies, sustainability reporting can thus be seen as an enabler of SDG actions, investments and strategies (see also Global Reporting Initiative, 2016), as already acknowledged by two leading global institutions on sustainable development and sustainability reporting – the United Nations Global Compact (UNGC) and the Global Reporting Initiative (GRI) – which recently established a joint initiative: Reporting on the SDGs (Global Reporting Initiative, 2018a; United Nations Global Compact, 2018c). The aim of the initiative is "to enable businesses to incorporate SDG reporting into their existing processes, empowering them to act and make the achievements of the SDGs a reality" (United Nations Global Compact, 2018c). Accordingly, the literature on corporate sustainability has shown that sustainability reporting can be an important driver of an organization's sustainability orientation (Lozano, 2015; Siebenhüner and Arnold, 2007). Sustainability reports can thus lend themselves very well to measuring, understanding, driving, and communicating organization SDG efforts, setting internal goals and managing the transition towards more sustainable development (Global Reporting Initiative, 2018b).

At the same time, the SDGs can also play an important role in the advancement of sustainability reporting. Indeed, according to Bebbington and Unerman (2018) and Stafford-Smith et al. (2017), the SDGs have the potential to inform and advance research and practice on sustainability accounting and reporting, as they represent a sufficiently radical, coherent, and generally accepted definition of sustainable development (Bebbington et al., 2017) and a compelling call for sustainability action

(Shoaf et al., 2018; Thorlakson et al., 2018; Verdolini et al., 2017). Coherently, Garcia-Torres et al. (2017) embedded the SDGs as a key element of the "Fast-Fashion Sustainability Scorecard" – an action-oriented disclosure framework aimed at fostering sustainable value creation in the fast-fashion industry.

However, Schramade (2017) empirically found that only a minority of companies currently mention the SDGs in their reports<sup>2</sup> and concluded that one of the key challenge in terms of SDG and implementation is linking them with specific incentives that might influence the choice to invest in the SDGs. Accordingly, Rosati and Faria (2018) found that only 67 out of the 408 organizations included in their sample (16%) addressed the SDGs in the sustainability reports published in 2016. Rosati and Faria (2018) also investigated the relationship between adoption of SDG reporting and a series of internal organizational factors, and concluded that SDG reporting is related to a larger size, a higher level of intangible assets, a higher commitment to sustainability frameworks and external assurance, a higher share of female directors, and a younger board of directors. However, as emphasized by Biermann et al. (2017), the challenging implementation of the SDGs might also be influenced by the extent to which countries concretely formalize their commitments to the SDGs and by their ability to turn global challenges into national issues. Coherently, as discussed in the next subsection, the authors argue that the implementation of the SDGs might benefit from particular institutional conditions that provide incentives for SDG investment, implementation and reporting.

#### 2.3 Institutional factors related to SDG reporting

Scholars have long pointed out that the country-specific institutional environment can affect the behaviour of organizations by defining the "rules of the game" that affect the efficiency and legitimacy of organizational structures (Delmas and Toffel, 2008). Specifically regarding sustainability, the organization's country (or region) of origin has been found to have an effect on the adoption (Buhr and Freedman, 2001; Jensen and Berg, 2012), the extent (Chen and Bouvain, 2009; Fortanier et al., 2011; Hahn and Kühnen, 2013; Prado-Lorenzo et al., 2009) and the quality of sustainability reporting (Vormedal and Ruud, 2009). According to previous studies of sustainability reporting, the country of origin can influence sustainability reporting, mainly because of differences in institutional characteristics, such as political and legal systems, economics and finance, sociocultural norms and education and labour systems (see also Hahn and Kühnen, 2013; Jensen and Berg, 2012). In this regard, Jensen and Berg (2012) explored a sample of 309 worldwide companies

<sup>&</sup>lt;sup>2</sup> In particular, through an internal NN Investment Partners' research, Schramade (2017, p. 88) found that "40% of the Dow 30, 28% of the Eurostoxx 50, and 28% of the largest 30 companies in the Nikkei 225 mentioned the SDGs in their 2015 reporting".

to study the effect of several country-level determinants on the publication of integrated reports (The International Integrated Reporting Council, 2013). Jensen and Berg (2012, p. 299) concluded that "investor and employment protection laws, the intensity of market coordination and ownership concentration, the level of economic, environmental and social development, the degree of national corporate responsibility and the value system of the country of origin proved to be relevant" determinants.

In this subsection, the authors build upon the previous findings in the corporate sustainability literature to derive various research hypotheses on the relationship between different institutional conditions and SDG reporting. The formulated research hypotheses are divided in six groups, which represent six different institutional systems that can be related to SDG reporting, such as country politics and law, economics and finance, society and culture, technology and innovation, education and labour, and sustainability (Table 1). Four of the six institutional systems (i.e., politics and law, economics and finance, society and culture, education and labour) are defined in accordance with previous studies of national institutional frameworks (e.g., Jensen and Berg, 2012; Matten and Moon, 2008), mainly inspired by institutional theory. Moreover, the institutional framework presented in this study extend the previous research by including two additional institutional systems – country technology and innovation and country sustainability – which have already been found to be related to organizations' sustainability performance and reporting (Halkos and Skouloudis, 2018; Jensen and Berg, 2012; Seitz, 2016).

Insert Table 1 about here

#### 2.3.1 Politics and law

Political and legal systems can enormously influence organizations' strategies and activities and consequently their sustainability goals and performance. However, the extent of this influence might depend on the type of legal system used by a country (i.e., civil vs. common law countries) (see also Jensen and Berg, 2012; Kolk and Perego, 2010).

Civil law countries are characterized by a relatively strong political influence on economic activities and accounting standards (e.g., Kolk and Perego, 2010; Zhao and Millet-Reyes, 2007). Organizations are expected to act responsibly and transparently within society and for a broad group of societal stakeholders (Jensen and Berg, 2012; Kolk and Perego, 2010; Legendre and Coderre, 2013).

Countries with a common law legal system present, in contrast a weaker political influence on economic activities, and organizations are more focused on shareholders' needs than stakeholders' needs (Jensen and Berg, 2012; Kolk and Perego, 2010; La Porta et al., 1998; Legendre and Coderre, 2013). Therefore, the authors hypothesize the following:

 $H_{1a}$  SDG reporting organizations are more likely to be located in *civil law countries*.

To analyse the relationship between SDG reporting and politics and law in greater detail, the authors also analyse the social and environmental aspects of legal protection and policy.

In particular, the authors assume that, in countries where social (such as employment conditions) and environmental (such as reduction of environmental impacts) needs are highly valued, the political and legal systems tend to strongly protect such needs (such as employment protection and environmental policy stringency) (Jackson and Apostolakou, 2010; Jensen and Berg, 2012). Therefore, in countries where social and environmental needs are highly valued, organizations might perceive stronger pressure from both the public and the legal system to care about social and environmental issues, which might reflect on their sustainability performance (Aguinis and Glavas, 2012; Horbach, 2008; Porter and van der Linde, 1995) and their willingness to provide sustainability reporting (such as SDG reporting). Thus, the authors hypothesize the following:

 $H_{1b}$  SDG reporting organizations are more likely to be located in countries with *stronger employment protection laws*.

 $H_{1c}$  SDG reporting organizations are more likely to be located in countries with *higher* levels of *environmental policy stringency*.

#### 2.3.2 Economics and finance

Following Jensen and Berg (2012) and Fasan et al. (2016), the authors hereby assume that sustainability reporting practices can be related to the economic development of an organization's country of origin. Indeed, countries with higher levels of economic development are characterized by more advanced social and institutional capacity for sustainability (Husted, 2005). Consequently, organizations located in these countries might have more resources to dedicate to sustainability (Baughn et al., 2007) and might perceive more public pressure to report on sustainability issues (Ali et al., 2017). Accordingly, the authors hypothesize that this fact affects SDG reporting:

 $H_{2a}$  SDG reporting organizations are more likely to be located in countries with *higher* levels of *economic development*.

Furthermore, the authors hypothesize that economic freedom can also play a role in terms of sustainability reporting. Indeed, previous studies have found that the economic freedom of a country, when interacting with other factors (such as a strong national sustainability culture), can have a positive influence on the sustainability performance of the country (Roy and Goll, 2014). Economic freedom thus might be a factor enabling increases in the level of sustainability reporting (as suggested by Fasan et al., 2016; Jensen and Berg, 2012). This might occur because economic freedom can reduce the effects of corruption and encourage businesses to take responsibility for their impact on social welfare (Baughn et al., 2007; Nwabuzor, 2005). Thus, the authors hypothesize the following:

 $H_{2b}$  SDG reporting organizations are more likely to be located in countries with *higher* levels of *economic freedom*.

Concerning financial systems, the authors can distinguish between market-based and bank-based systems. In market-based systems, market coordination is high, and companies financially depend on a large number of stakeholders (see also Jensen and Berg, 2012). In these systems, stakeholders analyse companies' information independently and base their support and investment decisions on such analyses. Companies are thus highly motivated to openly disclose their performance (including sustainability performance) to foster stakeholder engagement and support.

In bank-based systems, however, market coordination is lower, and banks act as the main financial providers and intermediaries between investors and companies. Given the high influence that banks have on companies, they have direct access to companies' information and can consequently monitor companies' performance (Duran and Bajo, 2014). In these systems, companies are thus less motivated to report their performance to the public (Ali and Hwang, 2000).

Therefore, the authors hypothesize the following:

 $H_{2c}$  SDG reporting organizations are more likely to be located in countries with *higher* degrees of *market coordination*.

Finally, Jensen and Berg (2012) found a significant impact of the degree of ownership concentration in a company on the form of sustainability reporting (traditional versus integrated reporting). In particular, they found that more dispersed corporate ownership is moderately related to

integrated reporting. Coherently, previous research has found that dominant owners are neither dependent on published information nor interested in publishing detailed and clear company information (e.g., Fan and Wong, 2002) since, in their view, doing so can lead to loose competitive advantage.

The authors argue that ownership concentration can also affect SDG reporting and hypothesize the following:

 $H_{2d}$  SDG reporting organizations are more likely to be located in countries with *lower* degrees of *ownership concentration*.

#### 2.3.3 Society and culture

A country's social development can play an important role in the other two dimensions of sustainable development (i.e., economic development and environmental protection) (Salim, 2015). In this section, the authors discuss two different aspects related to social development: human development and civic engagement.

Human development has been found to be positively related to economic growth (Albassam, 2013), low corruption (Sims et al., 2012), and women's labour force participation rate (Naidu, 2016). Indeed, according to the United Nations Development Programme (2016, p. iv), "[t]he human development approach and the 2030 Agenda can be mutually reinforcing by contributing to the narrative of each other, by exploring how human development and Sustainable Development Goal indicators can complement each other and by being a forceful advocacy platform for each other". Therefore, the authors hypothesize the following:

 $H_{3a}$  SDG reporting organizations are more likely to be located in countries with *higher* levels of *human development*.

Civic engagement has not only been found to be related to sustainability (Goldberger, 2011; Grant et al., 2004; Shutkin, 2003), but it is even considered an integral part of what it means to be sustainable (Portney, 2005). Coherently, Halkos and Skouloudis (2016) found that civic engagement was a very significant factor influencing CSR penetration at the national level. Thus, the authors argue that civic engagement can also play a role in terms of SDG reporting. Accordingly, the authors hypothesize the following:

 $H_{3b}$  SDG reporting organizations are more likely to be located in countries with *stronger civic* engagement.

Hofstede et al. (2010, p. 6) defined culture as "the collective programming of the mind which distinguishes the members of one group or category of people from another", and national culture as "the collective programming of the mind acquired by growing up in a particular country" (Hofstede et al., 2010, p. 520). In their work, Hofstede et al. (2010) identified six dimensions of national culture: masculinity, individualism, power distance, uncertainty avoidance, long-term orientation and indulgence versus restraint. Hofstede et al.'s national culture dimensions have been widely used in various academic fields, including CSR (Fernandez-Feijoo et al., 2012; Williams and Zinkin, 2008) and sustainable development (Vachon, 2010). For the purpose of this paper, Hofstede et al.'s (2010) six cultural dimensions are examined to detect the relationship between a country's culture and organizations' SDG reporting.

Concerning masculinity, Hofstede et al. (2010, p. 140) stated that "[a] society is called masculine when emotional gender roles are clearly distinct: men are supposed to be assertive, tough, and focused on material success, whereas women are supposed to be more modest, tender, and concerned with the quality of life. A society is called feminine when emotional gender roles overlap: both men and women are supposed to be modest, tender, and concerned with the quality of life". A masculine society is thus related to pursuing economic success, while a feminine society is related to caring for society members (Fernandez-Feijoo et al., 2012; Orij, 2010; Park et al., 2007; Vachon, 2010; Williams and Zinkin, 2008). Accordingly, Ringov and Zollo (2007) found that organizations based in more masculine countries show lower levels of social and environmental performance. Thus, building on these studies, the authors hypothesize the following:

 $H_{3c}$  SDG reporting organizations are more likely to be located in *less masculine* countries.

According to Hofstede et al. (2010, p. 92) "[i]ndividualism pertains to societies in which the ties between individuals are loose: everyone is expected to look after him- or herself and his or her immediate family. Collectivism as its opposite pertains to societies in which people from birth onward are integrated into strong, cohesive in-groups, which throughout people's lifetime continue to protect them in exchange for unquestioning loyalty".

Thus, while the members of an individualistic society look after themselves and their immediate families, in a collectivistic society, members identify themselves with a group and act for the benefit of it (Fernandez-Feijoo et al., 2012; Park et al., 2007; Williams and Zinkin, 2008). Therefore, in more individualistic cultures, members are less inclined to show commitments to society, including issues

related to public good and sustainability (García-Sánchez et al., 2013). Accordingly, García-Sánchez et al. (2013), analysing a sample of 1,590 companies located in 20 different countries, found that companies located in countries with higher levels of individualism are less likely to engage in integrated reporting. Therefore, the authors hypothesize that:

 $H_{3d}$  SDG reporting organizations are more likely to be located in *less individualistic* countries.

The third cultural dimension included in this study is power distance. Hofstede (2001, p. XIX) defined power distance as "the extent to which the less powerful members of organizations and institutions accept and expect that power is distributed unequally". Therefore, power distance measures "the degree of human inequality that underlies the functioning of each particular society" (Hofstede, 2001, p. xix).

Previous studies have argued that organizations located in countries scoring higher on power distance typically present heavier hierarchical structures (Vachon, 2010), less transparency (Pahl-Wostl et al., 2008), less meritocratic systems and stronger degrees of favouritism and loyalty to authority (Husted, 2005). As a consequence, members of societies scoring higher on power distance should be more prone to accepting unsustainable organizational practices, including poor working conditions and polluted environments (Vachon, 2010). Additionally, they should also be less inclined to openly discuss sustainability initiatives and adopt a stakeholder-oriented approach (Ringov and Zollo, 2007). Accordingly, previous studies have found that countries scoring higher on power distance present lower social and institutional capacity for environmental sustainability (Husted, 2005), lower weighted gross domestic product per capita balanced with environmental sustainability (Cox et al., 2011), and lower scores on the Environmental Sustainability Index developed by the World Economic Forum (Park et al., 2007). Similarly, Ringov and Zollo (2007), analysing a sample of 463 organizations from 23 North American, European and Asian countries, found that a country's score on power distance has a significant, negative effect on corporate social and environmental performance. Therefore, the authors hypothesize the following:

 $H_{3e}$  SDG reporting organizations are more likely to be located in countries with *lower levels of power distance*.

The fourth cultural dimension considered here is uncertainty avoidance. Hofstede (2001, p. xix) described uncertainty avoidance as "the extent to which a culture programs its members to feel either uncomfortable or comfortable in unstructured situations". For "unstructured situations", Hofstede (2001, p. xx) referred to situations that are "novel, unknown, surprising, different form usual".

Organizations located in uncertainty avoiding countries might thus encounter more difficulties in adapting to novel sustainability demands and practices (Ringov and Zollo, 2007). Accordingly, previous studies have hypothesized a negative effect of uncertainty avoidance on the social and institutional capacity for environmental sustainability (Husted, 2005), corporate social and environmental performance (Ringov and Zollo, 2007), and corporate sustainable development practices (Vachon, 2010) but without finding empirical evidence justifying their hypotheses.

In this study, the authors argue that SDG reporting, as a very novel and challenging practice for organizations worldwide (Schramade, 2017), will be more difficult to implement in uncertainty avoiding societies. Thus, the authors hypothesize the following:

 $H_{3f}$  SDG reporting organizations are more likely to be located in countries with *lower levels of uncertainty avoidance*.

The fifth cultural dimension considered in this study is long-term orientation. According to Hofstede et al. (2010, p. 239), "long-term orientation stands for the fostering of virtues oriented towards future rewards – in particular, perseverance and thrift. Its opposite pole, short-term orientation, stands for the fostering of virtues related to the past and present – in particular, respect for tradition, preservation of 'face,' and fulfilling social obligations".

Past studies have hypothesized that long-term orientation (LTO) is likely to be positively related to a stakeholder perspective, and thus to corporate social disclosure (Orij, 2010) and integrated reporting (García-Sánchez et al., 2013). Accordingly, the authors hypothesize that:

 $H_{3g}$  SDG reporting organizations are more likely to be located in *more long-term-oriented* countries.

Finally, the last cultural dimension included here is indulgence versus restraint. According to Hofstede (2001, p. 281) "[i]ndulgence stands for a tendency to allow relatively free gratification of basic and natural human desires related to enjoying life and having fun. Its opposite pole, restraint, reflects a conviction that such gratification needs to be curbed and regulated by strict social norms".

Thus, an indulgent society highly values the personal life control and freedom of behaviour, speech and thought of its members (Hofstede et al., 2010). Consequently, members of indulgent societies might have a greater likelihood of freely demanding that organizations address specific sustainability issues and publicly report on them. Coherently, Halkos and Skouloudis (2017) found a positive relationship between a country score on indulgence and national CSR penetration (measured according to the National CSR Index proposed by Skouloudis et al., 2016). However, Gallego-

Álvarez and Ortas (2017) did not observe any significant effect of indulgence on corporate environmental sustainability reporting (CESR) for most of the companies considered in their sample. They found instead that indulgence has a negative influence on CESR for those companies showing the highest commitment to CESR. In this study, following the reasoning outlined above, the authors hypothesize that:

 $H_{3h}$  SDG reporting organizations are more likely to be located in *indulgent* countries.

#### 2.3.4 Technology and innovation

In this study, the authors assume that organizations based in countries with higher levels of innovation and technological knowledge production have more resources (in terms of knowledge bases and capabilities) that can be used to adopt and promote sustainability management instruments (Jensen and Berg, 2012), such as those required to comply with the SDGs. Previous studies have shown that research and development (R&D) efforts can be positively correlated with CSR (see also Halkos and Skouloudis, 2018), since the implementation of sustainable production systems often requires investments in the research and development of new technologies that consider sustainability issues (Bansal, 2005; McWilliams and Siegel, 2001). Moreover, countries that possess superior innovation performance levels are expected to be at the forefront of the technological race, which has been increasingly shifting towards the development of sustainability innovations for many sectors (OECD, 2011). Therefore, a country's common innovation infrastructure and its innovation intensity are related to the flow of innovative technologies over time (Furman et al., 2002), increasingly including the production of sustainable technologies (Mathur and Berwa, 2017). This flow of technologies might encourage organizations in these national environments to commit to the SDGs earlier and include them in their sustainability reports. Accordingly, the authors selected a number of variables to represent the technological knowledge and innovative capacity of the countries and formulated the following hypotheses:

 $H_{4a}$  SDG reporting organizations are more likely to be located in countries with *higher* levels of *company spending on R&D*.

 $H_{4b}$  SDG reporting organizations are more likely to be located in countries with *higher* levels of *university-industry collaboration in R&D*.

 $H_{4c}$  SDG reporting organizations are more likely to be located in countries with *higher* levels of *capacity for innovation*.

 $H_{4d}$  SDG reporting organizations are more likely to be located in countries with *higher* levels of *technological knowledge*.

#### 2.3.5 Education and labour

The literature on CSR and business ethics has shown that education can influence attitudes, perceptions and expectations (Dellaportas, 2006; Elias, 2004; Luthar et al., 1997; Rosati et al., 2018). In particular, Elias (2004) and Luthar *et al.* (1997) found that a business ethics education can positively influence students' attitudes, awareness, and expectations in terms of CSR and business ethics. Previous studies have also found that, on average, individuals with higher levels of education show a greater CSR orientation (Kelley et al., 1990) and have higher CSR expectations (Calabrese et al., 2016) and more elaborate CSR perceptions (Quazi, 2003). This finding seems to hold true at the country level, with higher education levels in a country being positively related to national environmental sustainability (Park et al., 2007). Similarly, the authors hypothesize a positive relationship between education and orientation towards the SDGs and, consequently, SDG reporting:

*H*<sub>5*a*</sub> SDG reporting organizations are more likely to be located in countries with *higher* levels of *education*.

Following Jensen and Berg (2012), the authors also assume that organizations with higher levels of investments in tertiary education exhibit stronger interest in new research advancements and academic knowledge and will thus be able to discover and adopt new management frameworks (including sustainability reporting frameworks) more rapidly. Building on this idea, the authors hypothesize that:

*H*<sub>5b</sub> SDG reporting organizations are more likely to be located in countries with *higher* levels of *company spending on tertiary education*.

Finally, concerning the labour system, the authors assume that a high density of trade unions in a country is positively related to employee involvement in decision making (Jensen and Berg, 2012) and socio-political progress (De Geer et al., 2010). The authors then argue that socio-political

progress and employee involvement might be related to greater organization sensitivity to the SDGs. Based on this concept, the authors develop the following hypothesis:

*H*<sub>5c</sub> SDG reporting organizations are more likely to be located in countries with *higher density of trade unions*.

#### 2.3.6 Sustainability

In this section, according to previous studies (Jensen and Berg, 2012; Kolk and Perego, 2010; Sotorrío and Sánchez, 2010), the authors argue that the level of corporate responsibility, environmental performance and, more generally, sustainable development of a country can impact organizations' sustainability performance. This relationship might be due to the influence of specific national regulations or cultural factors on companies' sustainability practices. Based on these considerations, the authors assume that the level of corporate responsibility, environmental performance and sustainable development can also influence SDG reporting. Therefore, the authors develop the following three research hypotheses:

 $H_{6a}$  SDG reporting organizations are more likely to be located in countries with *higher* levels of *national corporate responsibility*.

*H*<sub>6b</sub> SDG reporting organizations are more likely to be located in countries with *higher* levels of *environmental performance*.

*H*<sub>6c</sub> SDG reporting organizations are more likely to be located in countries with *higher* levels of *sustainable development*.

Finally, the authors assume that organizations located in countries that are more vulnerable – or less ready to adapt – to climate change experience greater political and social pressure to act more sustainably and are thus more likely to report on SDGs (Hassan and Ibrahim, 2012). Therefore, the authors hypothesize the following:

 $H_{6d}$  SDG reporting organizations are more likely to be located in countries with *lower* levels of *climate adaptation readiness*.

 $H_{6e}$  SDG reporting organizations are more likely to be located in countries with *higher* levels of *climate vulnerability*.

#### **3 Methods**

#### 3.1 Data

The sample of this study consists of the organizations listed in the GRI database (Global Reporting Initiative, 2018c) that satisfy the following three conditions:

- 1. The organization published a sustainability report in 2016;
- The organization sustainability report was written in accordance with GRI standards (GRI G4 Guidelines or other GRI Standards); and
- GRI provided information about whether the organization sustainability report addressed the SDGs or not.

The authors used 2016 as the reference year for the analysis to identify the fastest adopters of SDGs, which were announced in September 2015. The authors selected only those organizations following GRI standards because GRI gathered information about SDG reporting only for those reports written in accordance with GRI standards. The third condition was included to select only those organizations for which GRI provided information about SDG reporting.

As a result, the authors obtained valid data from 2,413 organizations located in 90 different countries.

#### 3.2 Measures

The dependent variable is a Boolean variable that tracks whether or not organizations have addressed the SDGs in their sustainability reports, as shown in the GRI database.

The independent variables were acquired from different sources, as shown in Table 1. For all of the independent variables, in accordance with the publishing year of the sustainability report, the authors used data for 2016, if available. Otherwise, the authors used the most recent data. Table A in the Appendix shows the variables considered in the study and, for each variable, the data corresponding to the 90 countries included in the dataset.

Concerning the political and legal system, according to the research hypotheses, the authors collected data on three variables: legal system (PL-COCI); employee protection (PL-EMPR); and environmental policy stringency (PL-EPSI). The Boolean variable PL-COCI expresses a country's

legal system, differentiating between common law and civil law countries. The differentiation follows the classification provided by La Porta et al. (1998) and used in previous studies in the corporate sustainability literature (e.g., Jensen and Berg, 2012; Kolk and Perego, 2010). The level of employee protection within a country is expressed by PL-EMPR. To measure PL-EMPR, the authors used OECD's (2018a) data describing the level of employment protection within various OECD and non-OECD countries. In particular, the authors used the synthetic indicator of protection of permanent workers against individual and collective dismissals (expressed on a scale from 0 to 6 for least to most restrictions). PL-EPSI (environmental policy stringency) is measured by the OECD Environmental Policy Stringency Index, computed by OECD (2018b) and based on Botta and Koźluk (2014). The index is defined by OECD (2018b), as "the degree to which environmental policies put an explicit or implicit price on polluting or environmentally harmful behaviour". The index ranges from 0 to 6, with 0 indicating non-stringency and 6 indicating the highest degree of stringency, and it is based on the level of stringency of 14 instruments of environmental policy, e.g., related to air and climate pollution.

Concerning the economic and financial system, the authors collected data on four variables: economic development (EF-GNI); economic freedom (EF-EFI); market coordination (EF-COOR); and ownership concentration (EF-OWNE). EF-GNI expresses the level of economic development of a country, and it is measured by the World Bank's (2018) per-capita GNI. EF-EFI describes the economic freedom of a country, and it is measured by the Economic Freedom Index, published by the Heritage Foundation (2018) and ranging from 0 to 100 for lowest to highest level of economic freedom. The degree of market coordination (EF-COOR) is computed by Hall and Gingerich (2004), who provided a coordination index that includes factors such as shareholder power, dispersion of control, size of stock market, level of wage coordination, labour turnover, and degree of wage coordination. The index ranges between 0 and 1, with lower values indicating high importance of market coording to La Porta et al. (1998), who provided, for 49 countries, a measure of ownership concentration based on the mean of the ownership by the three largest shareholders of the 10 largest nonfinancial domestic firms of a country.

Concerning the socio-cultural system, the authors collected data on seven variables: human development (SC-IHDI), civic engagement (SC-CEG), masculinity (SC-MAS), individualism (SC-IND), long-term orientation (SC-LTO), power distance (SC-POW), uncertainty avoidance (SC-UNC), and indulgence versus restraint (SC-IVR). The human development (SC-IHDI) of a country was measured using the Inequality-adjusted Human Development Index provided by the United Nations Development Programme (2016). This index quantifies the effects of inequality on human development, measured considering the life expectancy, education, and income per capita indicators

of a country. The higher the score of a country is, the higher its combined levels of life expectancy, education, income, and equality are. A country's level of civic engagement (SC-CEG) was measured using the civic engagement and governance dimension of the education and social outcomes framework of OECD (2018c). In particular, the authors considered the percentage of adults reporting they believe that they have a say in government, i.e., people answering according to levels 4 and 5 for all educational levels on the civic engagement and governance dimension of the Survey of Adult Skills (OECD, 2018d). Data on country masculinity (SC-MAS), individualism (SC-IND), power distance (SC-POW) and uncertainty avoidance (SC-UNC) were obtained from Hofstede (2001). Data on country long-term orientation (SC-LTO) and indulgence versus restraint (SC-IVR) were obtained from Hofstede et al. (2010).

Data on technology and innovation were obtained from the World Economic Forum (2017a). In particular, data on company spending on R&D (TI-RDEX) (World Economic Forum, 2017b), university-industry collaboration in R&D (TI-UIRD) (World Economic Forum, 2017c), and capacity for innovation (TI-INCA) (World Economic Forum, 2017d) were based on the World Economic Forum's Executive Opinion Survey, expressed on a seven-point scale (1 to 7 for non-existent to high performance). Data on technological knowledge (TI-PAT) (World Economic Forum, 2017e) referred to the number of applications filed under the Patent Cooperation Treaty (WIPO, 2018) per million population of the country.

Concerning education and labour, the authors collected data on three variables: education, (EL-EDI), company spending on tertiary education (EL-EDS), and density of trade unions (EL-TUD). Data on education (EL-EDI) were obtained from the Education Index provided by the United Nations Development Programme (2016), calculated, for various countries, using mean years of schooling and expected years of schooling. The higher the score of a country is, the higher its performance is in terms of education. Data on company spending on tertiary education (EL-EDS) were derived from OECD (2018e) (selecting the perspective "Other private entities") and referred to private businesses and non-profit organization expenditures as percentages of total tertiary education spending. Data on density of trade unions (EL-TUD) were obtained from OECD (2018f) and corresponded to the ratio of wage and salary earners that are trade union members to the total number of wage and salary earners.

Concerning country sustainability, the authors collected data on five variables: national corporate responsibility (SU-NCSRI), environmental performance (SU-EPI), sustainable development (SU-SDGI), climate adaptation readiness (SU-READY), and climate vulnerability (SU-VULN). National corporate responsibility was measured using the National CSR Index provided by Skouloudis et al. (2016), who revisited the previous index proposed by Gjølberg (2009). The index was constructed based on a series of 16 international CSR standards, rankings and initiatives, and describes the level

of CSR conduct across different countries. The environmental performance of a country (SU-EPI) was measured using the Environmental Performance Index provided by Yale University (2018). This index varies between 0 and 100, with 0 indicating the highest environmental impact and thus the lowest environmental performance and 100 indicating the lowest environmental impact and thus the highest environmental performance. The sustainable development performance of a country (SU-SDGI) was measured using the 2017 SDG Index, provided by Sachs et al. (2017). The SDG index condenses the 17 SDGs into a single index to provide an overall measure of the performance of a country in terms of SDG implementation. The higher the SDG Index score of a country is, the higher its performance is in terms of SDG implementation. The climate adaptation readiness (SU-READY) and vulnerability (SU-VULN) of a country were measured in accordance with the readiness and vulnerability dimensions of the ND-GAIN Country Index, provided by the University of Notre Dame (2018). In particular, the vulnerability dimension "measures a country's exposure, sensitivity and ability to adapt to the negative impact of climate change", and the readiness dimension "measures a country's ability to leverage investments and convert them to adaptation actions" (University of Notre Dame, 2018). The higher a country's score is in terms of climate vulnerability, the more vulnerable the country is to climate change. Conversely, the higher a country's score is in terms of climate adaptation readiness, the more the country is judged to be able to adapt to climate change.

#### 4 Results

In this study, the authors used two-tailed non-parametric tests to test for statistically significant differences between SDG reporting and non-SDG reporting organizations. In particular, for the nominal independent variable (PL-COCI), the authors conducted Pearson's chi-square test of independence and calculated phi to identify the strength of association existing between the country's legal system and SDG reporting (Table 2). For the ordinary-scaled independent variables, the authors conducted the Mann–Whitney U-test, which is the most appropriate nonparametric alternative to the independent t-test for the sample size (Table 3). In the interpretation of the test results, the authors applied a 5% level of significance.

 $H_{1.a}$  proposed that SDG reporting organizations are more likely to be located in civil law countries. The results show that there is a very weak or no association between reporting on SDGs and being located in a common law country (Pearson's chi-square = 12.040; p < 0.01; phi = 0.083) (Table 2). Therefore, the authors can neither accept nor reject  $H_{1.a}$ .

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Insert Table 2 about here

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 $H_{1b}$  postulated that SDG reporting organizations are more likely to be located in countries with stronger employment protection laws. The results of the Mann–Whitney U-test (Table 3) show that the contrary is true, with non-SDG reporting organizations scoring higher, on average, in terms of employment protection (PL-EMPR) than SDG reporting ones (respectively, 2.265 and 2.135). Thus, the authors reject this hypothesis.

In  $H_{1c}$ , the authors hypothesized that SDG reporting organizations are more likely to be located in countries with higher levels of environmental policy stringency. The results show that the country Environmental Policy Stringency Index is higher, on average, for SDG reporting organizations than for non-SDG reporting ones. However, the difference is not significant (p-value = 0.062). Therefore, the authors can neither accept nor reject  $H_{1c}$ .

In  $H_{2a}$  and  $H_{2b}$ , the authors postulated that SDG reporting organizations are more likely to be located in countries with higher levels of economic development (EF-GNI) and economic freedom (EF-EFI), respectively. However, the results do not show any significant difference between the two distributions (p-value <sub>EF-GNI</sub> = 0.956, p-value <sub>EF-EFI</sub> = 0.266). Thus, the authors can neither accept nor reject  $H_{2a}$  and  $H_{2b}$ .

 $H_{2c}$  proposed that SDG reporting organizations are more likely to be located in countries with higher degrees of market coordination. The findings contradict the hypothesis and indicate that SDG reporting organizations are more likely to be located in countries with lower levels of market coordination (p-value <sub>EF-COOR</sub> = 0.022). Therefore, the authors reject  $H_{2c}$ .

In  $H_{2d}$ , the authors hypothesized that SDG reporting organizations are more likely to be located in countries with lower degrees of ownership concentration (EF-OWNE). However, the results do not show any significant differences in terms of ownership concentration (p-value <sub>EF-OWNE</sub> = 0.186). Thus, the authors can neither accept nor reject  $H_{2d}$ .

 $H_{3a}$  and  $H_{3b}$  proposed that SDG reporting organizations are more likely to be located in countries with higher levels of human development (SC-IHDI) and stronger civic engagement (SC-CEG). However, the results do not show any significant difference (p-value <sub>SC-IHDI</sub> = 0.082, p-value <sub>SC-CEG</sub> = 0.752). Thus, the authors can neither accept nor reject  $H_{3a}$  and  $H_{3b}$ .

Concerning country culture, in  $H_{3c}$ - $H_{3h}$ , the authors postulated that SDG reporting organizations are more likely to be located in countries with lower levels of masculinity (SC-MAS), individualism (SC-IND), power distance (SC-POW) and uncertainty avoidance (SC-UNC), and higher levels of long-term orientation (SC-LTO) and indulgence (SC-IVR). The results do not show any significant difference in terms of country masculinity (p-value <sub>SC-MAS</sub> = 0.079) and uncertainty avoidance (pvalue  $_{SC-UNC} = 0.100$ ). The authors found instead that SDG reporting organizations are more likely to be located in more individualistic and short-term-oriented countries (p-value  $_{SC-IND} < 0.01$ ; p-value  $_{SC-LTO} < 0.01$ ), contradicting  $H_{3d}$  and  $H_{3g}$ , and in more egalitarian (p-value  $_{SC-POW} = 0.033$ ) and indulgent countries (p-value  $_{SC-IVR} = 0.001$ ), supporting  $H_{3e}$  and  $H_{3h}$ .

Regarding technology and innovation,  $H_{4a}$ ,  $H_{4b}$ ,  $H_{4c}$ , and  $H_{4d}$  proposed that SDG reporting organizations are more likely to be located in countries with higher levels of company spending on R&D (TI-RDEX), higher levels of university-industry collaboration in R&D (TI-UIRD), higher levels of capacity for innovation (TI-INCA), and higher levels of technological knowledge (TI-PAT). The results of this study do not show any significant difference in terms of country technology and innovation (p-value TI-RDEX = 0.774; p-value TI-UIRD = 0.821; p-value TI-INCA = 0.438; p-value TI-PAT = 0.390). Therefore, the authors can neither accept nor reject  $H_{4a}$ ,  $H_{4b}$ ,  $H_{4c}$ , and  $H_{4d}$ .

 $H_{5a}$ ,  $H_{5b}$ , and  $H_{5c}$  postulated that SDG reporting organizations are more likely to be located in countries with higher levels of education (EL-EDI), higher levels of company spending on tertiary education (EL-EDS), and higher density of trade unions (EL-TUD). The results do not show significant differences between SDG and non-SDG reporting organizations in terms of country education level and trade union density (p-value <sub>EL-EDI</sub> = 0.612; p-value <sub>EL-TUD</sub> = 0.800). Therefore, the authors can neither accept nor reject  $H_{5a}$ , and  $H_{5c}$ . However, the findings seem to support  $H_{5b}$  (p-value <sub>EL-EDS</sub> = 0.047), showing that SDG reporting organizations are more likely to be based in countries with higher levels of company spending on tertiary education.

Concerning the relationship between country sustainability and SDG reporting, in  $H_{6a}$ ,  $H_{6b}$ , and  $H_{6c}$ , the authors hypothesized that SDG reporting organizations are more likely to be located in countries with higher levels of national corporate responsibility (SD-NCSRI), environmental performance (SD-EPI), and sustainable development (SD-SDGI). The results do not show significant differences in terms of environmental performance (p-value <sub>SU-EPI</sub> = 0.745) and sustainable development (p-value <sub>SU-SDGI</sub> = 0.070). Thus, the authors can neither accept nor reject  $H_{6b}$  and  $H_{6c}$ . The results of the analysis show instead a significant difference in terms of national corporate responsibility, with SDG reporting organizations displaying higher average levels than non-reporting ones (p-value <sub>SU-NCSRI</sub> = 0.021).

Finally, focusing on the relationship between SDG reporting and climate change effects,  $H_{6d}$  and  $H_{6e}$  proposed that SDG reporting organizations are more likely to be located in countries with lower levels of climate adaptation readiness (SD-READY) and higher levels of climate vulnerability (SD-VULN). The findings do not show significant results in terms of climate adaptation readiness (p-value <sub>SU-READY</sub> = 0.685). However, the analysis shows that SDG reporting organizations are more likely to be located in countries that are more vulnerable to climate change (p-value <sub>SU-VULN</sub> = 0.027).

Insert Table 3 about here

#### **5** Discussion

The results of this study did not support any of the hypotheses on the political and legal system. For one of the hypotheses ( $H_{1b}$ ), the results even contradict the initial assumptions of the authors (similar to Jensen and Berg, 2012), showing that SDG reporting organizations are more likely to be located in countries with weaker employment protection laws. This finding might occur because, in these countries, the public debate over labour practices issues might be more heated than in countries with stronger employee protection laws. Thus, where such governmental laws are weaker, trade unions, employees, activists, shareholders, and society at large might exert greater pressure on organizations themselves, which in turn must be more proactive in voluntarily reporting on their labour practices and sustainability conduct and must address sustainability more strategically (Babiak and Trendafilova, 2011).

Concerning the hypotheses on the economic and financial system, the data did not show support for any of the hypotheses. The results even contradict hypothesis  $H_{2c}$ , showing that SDG reporting organizations are more likely to be located in countries with lower levels of market coordination (i.e., primarily bank-based economies). This finding might reflect banks' emerging commitment to supporting organizations in improving their sustainability performance (Conley and Williams, 2011) and thus banks' potential to stimulate sustainable development (Bouma et al., 2001; Campiglio, 2016).

In terms of socio-cultural systems, the results support  $H_{3e}$  and  $H_{3h}$ , showing that organizations reporting on the Sustainable Development Goals are more likely to be located in countries with lower levels of power distance and higher levels of indulgence, thus confirming previous findings in the sustainability literature (e.g., Halkos and Skouloudis, 2017; Husted, 2005; Ringov and Zollo, 2007). However, the results contradict  $H_{3d}$  and  $H_{3g}$ , showing that SDG reporting organizations are more likely to be located in more individualistic and more short-term-oriented countries. However, the result on the relationship between SDG reporting and individualism is coherent with what was found by Vachon (2010) and Husted (2005). In particular, Vachon (2010) found individualism to be related to green corporatism, environmental innovation, fair labour practices and corporate social involvement. Husted (2005) observed that countries with high levels of individualism have higher social and institutional capacity for environmental sustainability. In this regard, Husted (2005, p. 353), citing Katz et al. (2001), argued that "[e]nvironmental interest-group activity appears to be much more widespread and diverse in individualistic cultures than in collectivistic cultures. As a result, a country with a high individualistic tendency should have more environmental groups and thus have a greater social and institutional capacity to respond to environmental problems". Similarly, a more individualistic country might also have more SDG interest groups and thus a greater social and institutional capacity to address the SDGs. Also concerning long-term orientation, the result does not seem to be an isolated case. Indeed, previous studies of sustainability reporting did not find support for the hypothesis of a positive relationship between sustainability reporting and long-term orientation (García-Sánchez et al., 2013). In particular, García-Sánchez et al. (2013) observed a negative impact of long-term orientation on integrated reporting, although the difference that they observed was not statistically significant. A possible explanation for these results is the short-term-oriented countries' focus on achieving quick results (Hofstede et al., 2010). The SDGs were announced in 2015, and the authors analysed SDG reporting based on sustainability reports published in 2016. Thus, organizations located in countries characterized by a greater focus on achieving quick results might have been more prone to addressing the SDGs in their sustainability reports earlier.

Regarding country technology and innovation, the results do not show significant differences between SDG and non-SDG reporting organizations. A similar result was found by Halkos and Skouloudis (2018) regarding the link between national CSR penetration and national innovative capacity.

Concerning a country's educational and labour systems, the results of the analysis support  $H_{5b}$ , showing that SDG reporting organizations are more likely to be based in countries with higher levels of company spending on tertiary education.  $H_{5a}$  and  $H_{5c}$ , in contrast, are not supported. The results confirm the results of Jensen and Berg (2012), who found a positive relationship between a country's level of private expenditures on tertiary education and the adoption of integrated reporting among the companies located in this country. As hypothesized by Jensen and Berg (2012), organizations with higher levels of investment in tertiary education show stronger interest in discovering and adopting new research advancements, academic knowledge and management frameworks, including sustainability reporting frameworks (e.g., SDG reporting).

Concerning the sustainability of a country, the findings led us to accept hypothesis  $H_{6a}$ . Indeed, SDG reporting organizations display higher average levels of national corporate responsibility than non-SDG reporting ones. This finding is in line with previous studies conducted by Jensen and Berg (2012), Kolk and Perego (2010), and Sotorrío and Sánchez (2010), showing that the level of corporate sustainability of a country can impact organizations' sustainability performance.

Finally, the authors also accepted hypothesis  $H_{6e}$ , which stated that SDG reporting organizations are more likely to be located in countries with higher levels of climate vulnerability. Indeed, according to the interpretation of the authors, organizations located in countries more vulnerable to climate

change might experience greater political and social pressure to act more sustainably and are thus more likely to report on SDGs (Hassan and Ibrahim, 2012).

#### 6 Limitations and future research

While this study provides a novel contribution to the emerging literature on the SDGs and SDG reporting, it also presents some limitations that must be considered when generalizing its findings.

First, this study is restricted to the investigation of the integration of SDGs into sustainability reports and does not include an assessment of actual organizational performance in terms of SDG advancement. Second, the study does not analyse internal organizational factors, such as organizational size, resources and capabilities, intangibility, and economic and sustainability performance. Third, as with all empirical studies, the limited sample size could have influenced the results of the study and affected their generalization. Fourth, the study relied only on organizations using GRI guidelines as a sustainability reporting framework, which might have introduced bias in the sample. Future studies might repeat the analysis by including organizations following alternative sustainability reporting guidelines. Fifth, some of the measures used to assess the institutional factors are not exempt from criticism, such as the Human Development Index (Wolff et al., 2011) and Hofstede's cultural dimensions (House et al., 2004).

Future studies might consider the effects on SDG reporting of internal organizational characteristics, such as size, resources and capabilities, intangibility, and economic and sustainability performance. Such an analysis might be complemented by means of qualitative research methods to uncover motivations and drivers for voluntarily reporting on SDGs in different contexts.

Finally, future research might focus on individual motivations to engage with and report on the SDGs and even consider the influences of different personal and demographic variables on individual motivations.

Thus, SDG reporting, as well as being of crucial importance for the achievement of the sustainable development agenda, also offers significant opportunities for future research within the corporate sustainability academic domain.

#### 7 Conclusions

SDG reporting can play a key role in the achievement of the SDGs worldwide. However, SDG reporting is still under-investigated in the corporate sustainability literature, and it is not yet clear

what the factors are that might influence it. This study aimed to contribute to the corporate sustainability literature by analysing the relationship between various national institutional factors and SDG reporting. In particular, the authors first identified 27 major institutional factors potentially related to organization SDG reporting and then tested these factors empirically.

The results show that some of the identified institutional factors are significantly related to SDG reporting, with differences existing between SDG reporting and non-SDG reporting organizations. In particular, the authors found that organizations reporting on the Sustainable Development Goals are more likely to be located in countries with higher levels of climate change vulnerability, national CSR, and company spending on tertiary education. Moreover, according to the findings, SDG reporting organizations are more likely to be located in countries characterized by more indulgent, egalitarian, short-term-oriented and individualistic cultures and by weaker employment protection and market coordination laws.

This study contributes to the emerging research on SDGs by emphasizing the roles of sustainability and SDG reporting for the achievement of the Sustainable Development Agenda and investigating the relationship between SDG reporting and various country-level institutional factors.

From a managerial perspective, this study aims to support managers and decision makers in developing a better understanding of key institutional factors positively or negatively related to the integration of SDGs into corporate sustainability reports. This might be particularly relevant for multinational enterprises operating in countries with different institutional conditions. Indeed, in these situations, multinational enterprises might choose to develop country-specific SDG strategies and actions compensating for these institutional conditions, which are negatively related to SDG integration. For example, managers might consider the institutional conditions that characterize a particular business environment when designing training programmes for, and allocating resources to, SDG reporting. Such an analysis might also be useful for potential investors, shareholders and other stakeholders when evaluating the level of SDG integration of a particular organization exposed to certain institutional conditions. Furthermore, studies such as the one presented here can inform decision makers responsible for the development of country-specific policies, incentives and instruments aimed at supporting corporate SDG reporting and implementation.

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#### Tables

Research hypothesis	Institutional system	Institutional factor	Description	Data source						
$H_{la}$		PL-COCI	Common/civil law	La Porta et al. (1998)						
$H_{lb}$	Politics and law	PL-EMPR	Employment protection	OECD (2018a)						
$H_{lc}$		PL-EPSI	Environmental policy stringency	OECD (2018b)						
$H_{2a}$		EF-GNI	Economic development	World Bank (2018)						
$H_{2b}$	Economics	EF-EFI	Economic freedom	The Heritage Foundation (2018)						
$H_{2c}$	and finance	EF-COOR	Market coordination	Hall and Gingerich (2004)						
$H_{2d}$		EF-OWNE	Ownership concentration	La Porta et al. (1998)						
H <sub>3a</sub>		SC-IHDI	Human development	United Nations Development Programme (2016)						
H3b		SC-CEG	Civic engagement	OECD (2018c)						
$H_{3c}$		SC-MAS	Masculinity	Hofstede (2001)						
H <sub>3d</sub>	Society and	SC-IND	Individualism	Hofstede (2001)						
H <sub>3e</sub>	culture	SC-POW	Power distance	Hofstede (2001)						
$H_{3f}$		SC-UNC	Uncertainty avoidance	Hofstede (2001)						
Hзg		SC-LTO	Long-term orientation	Hofstede et al. (2010)						
$H_{3h}$		SC-IVR	Indulgence versus restraint	Hofstede et al. (2010)						
$H_{4a}$		TI-RDEX	Company spending on R&D	World Economic Forum (2017b)						
$H_{4b}$	Technology	TI-UIRD	University-industry collaboration in R&D	World Economic Forum (2017c)						
$H_{4c}$	and innovation	TI-INCA	Capacity for innovation	World Economic Forum (2017d)						
$H_{4d}$		TI-PAT	Technological knowledge	World Economic Forum (2017e)						
$H_{5a}$		EL-EDI	Education	United Nations Development Programme (2016						
$H_{5b}$	Education and labour	EL-EDS	Company spending on tertiary education	OECD (2018e)						
$H_{5c}$		EL-TUD	Trade union density	OECD (2018f)						
$H_{6a}$		SU-NCSRI	National corporate responsibility	Skouloudis et al. (2016)						
$H_{6b}$		SU-EPI	Environmental performance	Yale University (2018)						
$H_{6c}$	Sustainability	SU-SDGI	Sustainable development	Sachs et al. (2017)						
$H_{6d}$		SU-READY	Climate adaptation readiness	University of Notre Dame (2018)						
$H_{6e}$		SU-VULN	Climate vulnerability	University of Notre Dame (2018)						

Table 1: Research hypotheses, by institutional systems and institutional factors.

Descend have the size		Variable	Common/Civil	0	rganizatio	ons	Std. r	esidual	Pearson chi						
Research hypothesis	Institutional system	Variable	Law	SDG	NSDG	G Total SDG NSDG		NSDG	Pearson chi-square	Asymp. sign. (2-sided)	Phi				
$H_{1a}$	Politics and law	PL-COCI	Common Law	79	310	389	2.8	-1.2	12.040	0.001	0.083				
	Fondes and law	rL-COCI	Civil Law	179	1,175	1,354	-1.5	0.6							

Table 2: Differences in the categorical variable PL-COCI between organizations that report on the SDGs and organizations that do not report on the SDGs.SDG = organizations that report on the SDGs, NSDG = organizations that do not report on the SDGs.

SDG N = 204, NSDG N = 105. Df = 1.

Acceptance/rejection threshold: phi = 0.10.

Research	Institutional	Independent	Ν	Iean	Mann-	XX/*1	7	Asymp. sign.	Acceptance/	
hypothesis	system	variable	SDG	NSDG	Whitney U	Wilcoxon W	Z	(2-tailed)	rejection	
$H_{lb}$	Politics and	PL-EMPR	2.135	2.265	209592.000	251497.000	-3.819	0.000	Rejected**	
$H_{lc}$	law	PL-EPSI	2.823	2.719	142046.500	1037837.500	-1.869	0.062		
$H_{2a}$		EF-GNI	33232.438	32945.342	293300.000	345950.000	-0.056	0.956		
$H_{2b}$	Economics	EF-EFI	70.247	70.440	334436.000	390716.000	-1.112	0.266		
$H_{2c}$	and finance	EF-COOR	0.464	0.530	83636.000	101591.000	-2.287	0.022	Rejected*	
$H_{2d}$		EF-OWNE	0.397	0.396	270379.500	1956745.500	-1.322	0.186		
$H_{3a}$		SC-IHDI	0.729	0.717	238517.500	286412.500	-1.737	0.082		
$H_{3b}$		SC-CEG	50.660	50.871	106898.500	677744.500	-0.315	0.752		
$H_{3c}$		SC-MAS	51.359	49.237	289614.500	2286615.500	-1.755	0.079		
$H_{3d}$	Society and	SC-IND	56.738	50.111	265465.000	2262466.000	-3.974	0.000	Rejected**	
H3e	culture	SC-POW	49.974	52.762	285471.000	333366.000	-2.135	0.033	Accepted*	
$H_{3f}$		SC-UNC	61.563	63.090	290786.000	338681.000	-1.646	0.100		
$H_{3g}$		SC-LTO	<b>TO</b> 45.542 54.006 2536		253655.000	302483.000	-5.375	0.000	Rejected**	
H3h		SC-IVR	57.314	53.702	268270.500	2203798.500	-3.330	0.001	Accepted**	
$H_{4a}$		TI-RDEX	4.548	4.579	341286.500	396897.500	-0.288	0.774		
$H_{4b}$	Technology	TI-UIRD	4.523	4.539	342004.500	2485489.500	-0.226	0.821		
$H_{4c}$	and innovation	TI-INCA	5.010	4.982	335586.500	2479071.500	-0.776	0.438		
$H_{4d}$		TI-PAT	107.729	109.372	281526.500	333852.500	-0.859	0.390		
$H_{5a}$		EL-EDI	0.793	0.798	293521.500	1974382.500	-0.507	0.612		
$H_{5b}$	Education and labour	EL-EDS	11.287	10.111	103319.000	725489.000	-1.983	0.047	Accepted*	
$H_{5c}$	labour	EL-TUD	31.755	32.167	63150.500	464110.500	-0.254	0.800		
$H_{6a}$		SU-NCSRI	-7.813	-9.451	315440.500	2456855.500	-2.308	0.021	Accepted*	
$H_{6b}$		SU-EPI	68.366	68.783	337906.500	393851.500	-0.325	0.745	-	
$H_{6c}$	Sustainability	SU-SDGI	73.008	74.130	274256.500	327231.500	-1.809	0.070		
$H_{6d}$		SU-READY	0.577	0.583	268497.000	318583.000	-0.405	0.685		
$H_{6e}$		SU-VULN	0.357	0.347	250897.000	1734400.000	-2.205	0.027	Accepted*	

Table 3: Results, by institutional factor.SDG = organizations that report on the SDGs, NSDG = organizations that do not report on the SDGs.Acceptance/rejection threshold: asymp. sign. (2-tailed) = 0.05.Statistical significance: \*p-value <0.05, \*\*p-value <0.01.</td>

### Appendix

NAMP         I         I         Iong         Iong<				Politic	s and Law (P	PL)	Economics and Finance (EF)						S	Society and	l Culture (S	C)			Tech	nology and	Innovation	(TI)	Educatio	on and Lab	our (EL)		Sustainability (SU)			
Alter         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I <th></th> <th>N (Tot)</th> <th>N (SDG)</th> <th></th> <th colspan="3"></th> <th></th> <th></th> <th></th> <th>IHDI</th> <th>CEG</th> <th></th> <th></th> <th></th> <th></th> <th>LTO</th> <th>IVR</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th colspan="3"></th> <th></th> <th></th> <th></th> <th>VULN</th>		N (Tot)	N (SDG)								IHDI	CEG					LTO	IVR												VULN
Apper         Apper <th< td=""><td>Andorra</td><td>1</td><td>-</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td></td></th<>	Andorra	1	-		-	-	-	-		-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	-	-	-	
appla         Appla         A         A         A         B         A         B         A         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B       B         B		1			-	-	3450.0	48.6	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-		-	-	-	37.4	50.2	0.2	
Andedic         Andedic <t< td=""><td></td><td>64</td><td>4</td><td>Civil</td><td>2.6</td><td>-</td><td>11970.0</td><td>52.3</td><td>-</td><td>0.5</td><td>0.7</td><td>-</td><td>56.0</td><td>46.0</td><td>49.0</td><td>86.0</td><td>20.0</td><td>62.0</td><td>3.1</td><td>3.3</td><td>4.1</td><td>1.2</td><td>0.8</td><td>0.0</td><td>-</td><td>-28.4</td><td>59.3</td><td>72.5</td><td>0.4</td><td>0.4</td></t<>		64	4	Civil	2.6	-	11970.0	52.3	-	0.5	0.7	-	56.0	46.0	49.0	86.0	20.0	62.0	3.1	3.3	4.1	1.2	0.8	0.0	-	-28.4	59.3	72.5	0.4	0.4
Image         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I        I         I         I		56	14	Common	1.9	3.7	54420.0	80.9	0.4	0.3	0.9	53.0	61.0	90.0	36.0	51.0	21.0	71.0	4.4	4.3	5.1	77.7	0.9	13.6	-	6.2	74.1	75.9	0.7	0.3
basis         basis <th< td=""><td>Austria</td><td>34</td><td>7</td><td>Civil</td><td>2.4</td><td>2.9</td><td>45790.0</td><td>71.8</td><td>1.0</td><td>0.6</td><td>0.8</td><td>44.0</td><td>79.0</td><td>55.0</td><td>11.0</td><td>70.0</td><td>60.0</td><td>63.0</td><td>4.9</td><td>4.8</td><td>5.6</td><td>174.7</td><td>0.8</td><td>2.6</td><td>28.0</td><td>-12.2</td><td>79.0</td><td>81.4</td><td>0.7</td><td>0.3</td></th<>	Austria	34	7	Civil	2.4	2.9	45790.0	71.8	1.0	0.6	0.8	44.0	79.0	55.0	11.0	70.0	60.0	63.0	4.9	4.8	5.6	174.7	0.8	2.6	28.0	-12.2	79.0	81.4	0.7	0.3
indim         indim <th< td=""><td>Bahrain</td><td>1</td><td>1</td><td>-</td><td>-</td><td>-</td><td>-</td><td>67.7</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>3.4</td><td>3.7</td><td>4.1</td><td>2.9</td><td>0.7</td><td>-</td><td>-</td><td>-25.4</td><td>55.2</td><td>64.6</td><td>0.4</td><td>0.5</td></th<>	Bahrain	1	1	-	-	-	-	67.7	-	-	-	-	-	-	-	-	-	-	3.4	3.7	4.1	2.9	0.7	-	-	-25.4	55.2	64.6	0.4	0.5
Bell         Bell <th< td=""><td>0</td><td>3</td><td>1</td><td>-</td><td>-</td><td>-</td><td></td><td></td><td>-</td><td>-</td><td></td><td>-</td><td>55.0</td><td>20.0</td><td>80.0</td><td>60.0</td><td></td><td></td><td>2.8</td><td>2.5</td><td>3.8</td><td>0.0</td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td>0.3</td><td>0.5</td></th<>	0	3	1	-	-	-			-	-		-	55.0	20.0	80.0	60.0			2.8	2.5	3.8	0.0		-	-				0.3	0.5
bind         bint         bind        bind        b	Belarus	1	-	Civil	-	-			-	-		-	-	-	-	-			-	-	-	-		-	-				-	-
internate         in         in<         in         in         in<         i	-	32	6	Civil		2.5			0.7	0.5		46.0	54.0	75.0	65.0	94.0	82.0	57.0	5.2	5.3	5.5	110.4		5.9	55.0					
Imal         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1        1         1         1		2	-	Civil	1.9	-			-	-		-	-	-	-	-	-	-	-	-	-	-		-	-	-28.4				
Image         1         Colu         5         Colu         5         Colu         Colu <td></td> <td>1</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td>		1	-	-	-	-			-	-		-	-		-		-							-	-	-				
Chair         S         2         Campa         5         3         4         5         7         5         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0         7         0       7         0        7 <td></td> <td>39</td> <td>4</td> <td></td> <td>1.7</td> <td>0.4</td> <td></td> <td></td> <td>-</td> <td>0.6</td> <td></td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>		39	4		1.7	0.4			-	0.6		-												-	-					
Carbon         Carbon<	-	1	-		-	-				-		-													-					
Chile         25         -         -         5         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0        0         0         0 <td></td> <td>55</td> <td>2</td> <td></td> <td>1.5</td> <td>3.4</td> <td></td> <td></td> <td>0.1</td> <td>0.4</td> <td></td> <td>49.0</td> <td>52.0</td> <td>80.0</td> <td>39.0</td> <td>48.0</td> <td>36.0</td> <td>68.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>25.3</td> <td>29.8</td> <td>-0.8</td> <td></td> <td>78.0</td> <td></td> <td>0.3</td>		55	2		1.5	3.4			0.1	0.4		49.0	52.0	80.0	39.0	48.0	36.0	68.0						25.3	29.8	-0.8		78.0		0.3
Chim         Chim <th< td=""><td></td><td>1</td><td>-</td><td></td><td>-</td><td>-</td><td></td><td></td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td>-</td><td></td><td>-</td><td></td><td>-</td></th<>		1	-		-	-			-	-		-	-	-	-	-	-	-						-	-	-		-		-
Calcade         Gala         Sin         Si			-	Civil		2.0			-	0.5	0.7	93.0						24.0						10.6	14.2					
Cons Res         3         1         0         1         0         1         0         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0        0         0         0 </td <td></td> <td></td> <td>13</td> <td>Civil</td> <td></td> <td>2.0</td> <td></td> <td></td> <td>-</td> <td>0.6</td> <td>0.5</td> <td>-</td> <td></td> <td>0.0</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>			13	Civil		2.0			-	0.6	0.5	-												0.0	-					
Cacher         S         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I        I         I         I <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>						-			-	-		-												-	-					
Condit         S         Cond         2.5         Cond         2.6         Part         Part        Part         Part         Part         Part         Part         Part         Part         Part         Part         Part         Part         Part         Part         Part         Part         Part         Part         Part         Part         Part         Part         Part         Part         Par				-	-	_				-						-	_	-	-	-				_	-	-27.0				
Cach Repair         3         -         Ciri         2.7         2.4         1.8         2.4         1.9         2.4         1.9         4.0         1.0         2.0         1.0         2.0         1.0         2.0         1.0         2.0         1.0         2.0         1.0         2.0         1.0         2.0         1.0         2.0         1.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.0         2.			-	Civil	2.3	_			-	-		_	40.0	33.0	73.0	80.0	58.0	33.0	3.0	2.7	3.4	9.5		_	_	-23.1			-	-
Demox         19         5         Cvi         2.9         3.9         6.90         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0 <td></td> <td>5</td> <td></td> <td></td> <td></td> <td>2.4</td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td>29.0</td> <td></td> <td>-</td> <td>15.1</td> <td></td> <td></td> <td></td> <td>_</td> <td>-</td>		5				2.4			-	-		29.0												-	15.1				_	-
nepr         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n         n		10	5						0.7	0.5														5.3					0.8	0.3
Emain         1         1         17500         78         -         0         8         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0        0        0        0 </td <td>Ecuador</td> <td>13</td> <td>4</td> <td>Civil</td> <td>1.8</td> <td>-</td> <td>5800.0</td> <td>48.5</td> <td>-</td> <td>-</td> <td>0.6</td> <td>-</td> <td>63.0</td> <td>8.0</td> <td>78.0</td> <td>67.0</td> <td>-</td> <td>-</td> <td>2.8</td> <td>3.0</td> <td>3.7</td> <td>0.3</td> <td>0.7</td> <td>-</td> <td>-</td> <td>-28.1</td> <td>57.4</td> <td>69.0</td> <td>0.3</td> <td>0.4</td>	Ecuador	13	4	Civil	1.8	-	5800.0	48.5	-	-	0.6	-	63.0	8.0	78.0	67.0	-	-	2.8	3.0	3.7	0.3	0.7	-	-	-28.1	57.4	69.0	0.3	0.4
Finded         76         8         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7        7         7         7 <td>Egypt</td> <td>1</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>3410.0</td> <td>53.4</td> <td>-</td> <td>0.6</td> <td>0.5</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>7.0</td> <td>4.0</td> <td>2.9</td> <td>2.8</td> <td>3.4</td> <td>0.9</td> <td>0.6</td> <td>-</td> <td>-</td> <td>-31.5</td> <td>61.2</td> <td>64.9</td> <td>0.3</td> <td>0.4</td>	Egypt	1	-	-	-	-	3410.0	53.4	-	0.6	0.5	-	-	-	-	-	7.0	4.0	2.9	2.8	3.4	0.9	0.6	-	-	-31.5	61.2	64.9	0.3	0.4
Prine         Prine         Si         Side         Side <th< td=""><td>Estonia</td><td>2</td><td>-</td><td>Civil</td><td>2.1</td><td>-</td><td>17750.0</td><td>78.8</td><td>-</td><td>-</td><td>0.8</td><td>44.0</td><td>30.0</td><td>60.0</td><td>40.0</td><td>60.0</td><td>82.0</td><td>16.0</td><td>3.8</td><td>3.9</td><td>4.9</td><td>27.2</td><td>0.9</td><td>-</td><td>6.5</td><td>-25.1</td><td>64.3</td><td>78.6</td><td>-</td><td>-</td></th<>	Estonia	2	-	Civil	2.1	-	17750.0	78.8	-	-	0.8	44.0	30.0	60.0	40.0	60.0	82.0	16.0	3.8	3.9	4.9	27.2	0.9	-	6.5	-25.1	64.3	78.6	-	-
Germany         13         13         13         13         13         24         24         24         24         24         24         24         24         24         24         24         24         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25         25 <t< td=""><td>Finland</td><td>76</td><td>8</td><td>Civil</td><td>2.2</td><td>3.4</td><td>45050.0</td><td>74.1</td><td>0.7</td><td>0.4</td><td>0.8</td><td>61.0</td><td>26.0</td><td>63.0</td><td>33.0</td><td>59.0</td><td>38.0</td><td>57.0</td><td>5.3</td><td>5.6</td><td>5.6</td><td>265.1</td><td>0.8</td><td>3.5</td><td>67.3</td><td>19.0</td><td>78.6</td><td>84.0</td><td>0.8</td><td>0.3</td></t<>	Finland	76	8	Civil	2.2	3.4	45050.0	74.1	0.7	0.4	0.8	61.0	26.0	63.0	33.0	59.0	38.0	57.0	5.3	5.6	5.6	265.1	0.8	3.5	67.3	19.0	78.6	84.0	0.8	0.3
Grees         5         6         Civil         2         1         1990         7.3         5         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0	France	27	3	Civil								-	43.0	71.0				48.0	5.2			126.6	0.8	9.6			84.0		0.6	
Hondersom         2         -         Civit         2         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         <	•			Civil					1.0															-						
Hong Mong         1         -         -         -         -         0         0         -         -         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0        0         0         0<			6	Civil		2.1			-	0.7		87.0	57.0	35.0	60.0	112.0	45.0	50.0						-	21.8					
Humgay         Y         -         Civil         2.6         2.700         6.7         -         -         0.8         -         8.0         8.0         8.0         8.0         3.1         3.1         3.4         3.8         2.47         0.8         -         1.8         -0.5         0.5         0.5         0.4           India         4.5         6         -         2.0         3.00         0.5         0.5         0.6         0.5         0.5         0.5         0.5         0.6         0.5         0.5         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6		-		Civil	2.4	-			-	-	0.4	-	-		-		-					0.0		-	-		51.5	61.7	0.3	0.5
leam         1         Cwi         2         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5 <td></td> <td></td> <td>1</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td> <td>-</td> <td>0.5</td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td>			1	-	-	-			-	0.5	-	-												-	-		-			-
India         45         6         -         2.6         1.3         1070         6.0         6.0         7.0         6.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0		,	-			2.6			-	-		-	88.0	80.0	46.0	82.0								-	11.8					
Index         13         3         -         29         12         3400         642         -         60         6         780         840         620         830         44         43         48         0.1         0.6         -         20         630         620         630         630         630         52         830         52         830         52         830         52         830         52         830         52         830         52         830         53         54         54         54         54         54         54         55         55         54         54         55         55         54         54         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55 </td <td></td> <td>-</td> <td>-</td> <td>Civii</td> <td></td> <td>- 1.2</td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>48.0</td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.6</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>		-	-	Civii		- 1.2			-	-		-	-	48.0	-	-								0.6	-					
Indiand         2         1         Common         21         2.0         91.00         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0         9.0				-					-			-												-	-					
Isend         16         3         -         22         -         36240         72         -         0.5         0         480         470         580         5.0         58         5.7         5.9         27.1         0.9         28         5.6         6.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0        <		13	1	- Common					0.3			42.0												4.8	34.2					
Indy       70       12       Civil       29       2.8       317.00       72.0       9.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0       70.0 <th7< td=""><td></td><td>16</td><td>3</td><td>-</td><td></td><td>2.0</td><td></td><td></td><td>0.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th7<>		16	3	-		2.0			0.5																					
Japan       26       5       -       2.1       3.5       37900       7.3       0.7       0.2       0.8       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       0.0       9.0       0.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.0       9.				Civil		2.8			0.9									30.0												
Jersy       1       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - <td>-</td> <td></td> <td></td> <td>-</td> <td></td>	-			-																										
Jordam       4       2       -       -       39200       649       -       -       0.6       -       -       -       1.60       43.0       3.4       3.5       4.2       0.5       0.7       -       -       2.5       6.2       6.0       0.4       0.4         Kazakhstam       2       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kazakhsan       2       -       Civil       2.3       -       88100       69.1       -       -       0.7       -       -       -       3.0       3.3       3.9       1.3       0.8       -       -       -27.5       5.46       7.11       -       -         Kenya       1       -       -       3.3800       62.7       -       0.4       0.4       -       -       3.0       3.3       3.9       1.3       0.8       -       -       -27.5       5.46       7.11       -       -         Kenya       1       -       -       3.800       62.7       -       0.4       -       0.7       -       -       -       0.7       0.7       -       -       -       0.8       0.7       0.7       0.7       -       -       -       0.8       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7       0.7 </td <td></td> <td>4</td> <td>2</td> <td>-</td> <td>-</td> <td>-</td> <td>3920.0</td> <td>64.9</td> <td>-</td> <td>-</td> <td>0.6</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>16.0</td> <td>43.0</td> <td>3.4</td> <td>3.5</td> <td>4.2</td> <td>0.5</td> <td>0.7</td> <td>-</td> <td>-</td> <td>-25.2</td> <td>62.2</td> <td>66.0</td> <td>0.4</td> <td>0.4</td>		4	2	-	-	-	3920.0	64.9	-	-	0.6	-	-	-	-	-	16.0	43.0	3.4	3.5	4.2	0.5	0.7	-	-	-25.2	62.2	66.0	0.4	0.4
Kuwait       4       1       -       -       348900       62.2       -       -       -       -       -       2.8       2.9       3.7       0.3       0.6       -       -       -       0.0       0.1         Latvia       1       -       Civil       2.9       -       145700       73.6       -       -       -       -       6.0       10.3       2.2       3.1       4.2       11.8       0.8       -       13.1       -2.4       6.01       75.2       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -		2	-	Civil	2.3	-	8810.0	69.1	-	-	0.7	-	-	-	-	-	-	-	3.0	3.3	3.9	1.3	0.8	-	-	-27.5	54.6	71.1	-	-
Latvia       1       -       Civil       2.9       -       14570.0       7.6       -       0.7       -       -       -       690       13.0       3.2       3.1       4.2       11.8       0.8       -       13.1       -24.8       66.1       75.2       -       -       Lebanon       1       -       Civil       -       -       780.0       5.2       -       0.6       -       -       -       -       -       3.6       4.5       3.6       4.5       2.4       0.7       -       -       61.1       64.9       0.3       0.4         Licchnenstein       1       -       Civil       2.4       -       17500       7.3       -       -       0.8       7.0       -       -       -       -       -       -       -       -       -       -       0.8       1.0       0.8       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       <	Kenya	1	1	-	-	-			-	-	0.4	-	-	-	-	-	-	-						-	-					
Lebanon       1       -       -       -       -       -       -       -       -       3.2       3.6       4.5       2.4       0.7       -       -       -       0.6       -       -       -       -       -       3.2       3.6       4.5       2.4       0.7       -       -       -       0.6       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -      <		4	1	-	-	-			-	-	-	-	-	-	-	-	-	-						-	-				0.4	0.4
Lichenstein       1       -       Civil       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       0.6       -       -       0.6       -       -       0.6       -       -       0.6       -       -       0.6       3.9       4.1       4.8       15.9       0.9       -       0.0       -       0.6       -       -       0.6       3.9       4.1       4.8       15.9       0.9       -       0.0       -       0.6       -       -       0.6       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0 <t< td=""><td></td><td>1</td><td>-</td><td>Civil</td><td>2.9</td><td>-</td><td></td><td></td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>69.0</td><td>13.0</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>13.1</td><td>-24.8</td><td></td><td></td><td>-</td><td>-</td></t<>		1	-	Civil	2.9	-			-	-		-	-	-	-	-	69.0	13.0						-	13.1	-24.8			-	-
Lithunaina       1       -       Civil       2.4       -       147500       7.5       -       -       0.8       7.0       -       -       0.8       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0		1	-	-	-	-	7980.0	53.2	-	-	0.6	-	-	-	-	-	-	-	3.2	3.6	4.5	2.4		-	-	-	61.1	64.9		0.4
Lexembourg       6       1       Civil       2.7       -       714700       76.4       -       -       0.8       -       50.0       60.0       40.0       70.0       56.0       52.0       4.8       56.0       12.3       0.8       1.8       33.3       -11.1       79.1       75.0       0.7       0.3         Malaysia       18       3       -       19       -       9860.0       74.5       -       0.5       -       -       50.0       26.0       10.0       36.0       51.0       52.0       54.4       10.6       0.7       -       -       -       19.0       75.0       60.7       0.5         Maxirius       4       1       -       -       97000       75.1       -       -       -       -       -       36.0       32.0       43.0       22.0       07.0       75.0       26.0       60.0       60.0       60.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76.0       76		1	-		-	-	-		-	-	-		-	-	-	-		-	-	-	-	-		-	-		-	-	0.6	-
Malaysia       18       3       -       19       -       98600       74.5       -       0.5       -       -       500       26.0       104.0       36.0       41.0       57.0       5.1       5.2       5.4       10.6       0.7       -       -       19.0       59.2       69.7       0.5       0.4         Mauritius       4       1       -       -       97700       75.1       -       -       0.7       -       -       -       -       3.6       3.2       4.3       2.2       0.7       -       -       -26.0       56.6       62.1       0.6       0.4         Maritius       4       1       -       -       97700       75.1       -       -       -       -       -       3.6       3.2       4.3       2.2       0.7       -       -       -26.0       56.6       62.1       0.6       0.4         Marcico       58       6       Civil       2.6       99700       3.0       81.0       82.0       24.0       97.0       3.5       -       -       4.04       4.04       0.7       0.5       -       -       -       0.4       0.4       0.4       0.		1				-			-	-		79.0	-	-	-	-								-					-	-
Maritius       4       1       -       -       97700       75.1       -       -       0.7       -       -       -       -       3.6       3.2       4.3       2.2       0.7       -       -       -       0.6       0.4         Mexico       58       6       Civil       2.6       99700       75.1       -       -       0.6       0.6       -       69.0       30.0       81.0       82.0       24.0       97.0       3.2       3.6       4.1       2.4       0.7       0.3       -       -27.4       59.7       69.1       0.4       0.4         Morocco       2       -       -       -       2800       61.0       -       69.0       30.0       81.0       82.0       24.0       97.0       3.2       3.6       4.1       2.4       0.7       0.3       -       -27.4       59.7       69.1       0.4       0.4       0.4       0.8       81.0       82.0       24.0       97.0       3.2       3.6       4.1       2.4       0.7       0.3       -       -       3.6       3.2       3.6       3.1       3.8       1.8       1.8       9.3       1.0       1.0       1.0	0	6	-	Civil		-			-	-	0.8	-												1.8	35.3					
Mexico       58       6       Civil       2.6       90400       64.8       -       0.6       0.6       -       69.0       30.0       81.0       82.0       24.0       97.0       3.2       3.6       4.1       2.4       0.7       0.3       -       -27.4       59.7       69.1       0.4       0.4         Morocco       2       -       -       28500       61.9       -       0.5       -       53.0       46.0       70.0       68.0       14.0       25.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0		18	3	-	1.9	-			-	0.5		-	50.0	26.0	104.0	36.0	41.0	57.0						-	-					
Morocco       2       -       -       -       2850       61.9       -       -       0.5       -       53.0       46.0       70.0       68.0       14.0       25.0       3.0       3.0       3.9       1.7       0.5       -       -       3.3       66.7       0.4       0.4         Netherlands       71       9       Civil       2.9       3.6       46640.0       76.2       0.7       0.4       0.9       58.0       14.0       80.0       38.0       53.0       67.0       68.0       5.2       5.6       5.7       211.9       0.9       13.8       18.8       9.3       75.5       79.9       0.7       0.4         New Zealand       2       -       Common       1.0       38750.0       84.2       0.2       0.5       -       60.0       79.0       22.0       49.0       33.0       75.0       44.4       4.8       5.3       80.5       0.9       14.7       20.3       -15.2       76.0       77.6       0.8       0.3         Nigeria       8       6       -       -       63.0       70.0       80.0       90.0       31.0       70.0       81.6       93.0       92.0       93.0		4	1	-	-	-			-	-		-	-		-	-	-	-						- 0.2	-					
Netherlands       71       9       Civil       2.9       3.6       466400       76.2       0.7       0.4       0.9       58.0       14.0       80.0       38.0       53.0       67.0       68.0       5.2       5.6       5.7       21.9       0.9       1.8       18.8       9.3       75.5       79.9       0.7       0.4         New Zealand       2       -       Common       1.0       -       38750.0       84.2       0.2       0.5       -       60.0       58.0       79.0       20.0       49.0       33.0       75.0       4.4       4.8       5.3       80.5       0.9       14.7       20.3       -15.2       76.0       77.6       0.8       0.3         Nigrain       8       6       -       -       2.4       0.5       5.6       5.7       2.9       2.5       3.9       0.0       0.5       -       -3.31       54.8       0.2       0.5       0.4       0.8       0.4       0.9       1.0       50.0       35.0       5.9       2.9       3.6       3.8       0.4       0.7       5.8       0.8       0.8       0.8       0.3       0.9       0.2       5.1       6.0       7.5				Civil	2.6	-			-	0.6		-												0.3	-					
New Zealand       2       -       Common       1.0       -       38750.0       84.2       0.2       0.5       -       60.0       58.0       79.0       22.0       49.0       33.0       75.0       4.4       4.8       5.3       80.5       0.9       1.4.7       20.3       -15.2       76.0       77.6       0.8       0.3         Nigeria       8       6       -       -       2450.0       58.5       -       0.4       0.3       -       -       -       -       1.0       84.0       2.9       2.5       3.9       0.0       0.5       -       -       -       0.5       0.5       -       -       -       -       -       -       1.0       84.0       2.9       2.5       3.9       0.0       0.5       -       -       -       3.5       0.5       0.7       0.8       0.3       0.5       0.5       -       -       -       0.5       0.5       0.5       -       -       -       0.3       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.5		2		- Civil	20	3.6			07	- 0.4		58.0												13.8	18.9					
Nigeria       8       6       -       -       2450.0       58.5       -       0.4       0.3       -       -       -       13.0       84.0       2.9       2.5       3.9       0.0       0.5       -       -       -       -       13.0       84.0       2.9       2.5       3.9       0.0       0.5       -       -       -       -       13.0       84.0       2.9       2.5       3.9       0.0       0.5       -       -       -       -       13.0       84.0       2.9       2.5       3.9       0.0       0.5       -       -       -       -       13.0       84.0       2.9       2.5       3.9       0.0       0.5       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       3.0       0.5       0.0       0.5       0.1       -       -       -       3.0       0			9	Commen		5.0					0.9																			
Norway       32       2       Civil       2.3       3.3       82440.0       74.3       0.8       0.4       0.9       70.0       8.0       69.0       31.0       50.0       35.0       55.0       4.9       4.8       5.3       139.3       0.9       0.2       53.1       8.0       77.5       83.9       0.8       0.3         Oman       3       -       -       -       61.0       -       -       -       -       2.9       3.6       3.8       0.4       0.7       -       -32.5       51.3       64.3       0.5       0.4		2	-	-	1.0	-			0.2		03	0.00	56.0	79.0	22.0	49.0								14./	20.5					
Oman 3		0		- Civil	23	33			0.8			70.0	80	69.0	31.0	50.0								0.2	53.1					
			-	-	2.3	5.5			0.0	- 0.4	0.9		0.0		51.0	- 50.0								0.2						
		-		_	-	_	1500.0			0.4	0.4		50.0	14.0	55.0	70.0	50.0	0.0						_	-					
	i anistan	5	-	-	-	-	1500.0		-	0.4	0.4	-	50.0	14.0	55.0	70.0	50.0	0.0	5.5	5.5	4.0	0.0	0.4	-	-	-20.1	51.5	55.0	0.5	0.5

Panama	2		Civil	1.7		12140.0	67.0			0.6		44.0	11.0	95.0	86.0			3.4	3.3	4.3	1.4	0.7			-23.4	62.7	63.9	0.4	0.4
Paraguay	2	- 1	Civil	1.7	-	4060.0	62.1	-	-	0.0	-	44.0	11.0	95.0	80.0	-	-	2.7	2.6	3.8	0.0	0.7	-	-	-23.4	53.9	66.1	0.4	0.4
Peru	37	1	Civil	2.2	-	5950.0	68.7	-	0.6	0.6	-	42.0	16.0	64.0	87.0	25.0	46.0	2.7	2.0	3.6	0.6	0.7	-	-	-26.7	61.9	66.0	0.4	0.4
	37	4			-	3580.0	65.0	-	0.6		-	42.0 64.0	32.0	94.0	44.0	23.0	40.0	3.5	3.5		0.0	0.7	-	-	-20.7	57.7	64.3	0.4	0.4
Philippines Poland	9	4	- Civil	2.4	2.6	12690.0	63.0 68.5	-	0.0	0.6 0.8	-	64.0 64.0	52.0 60.0	94.0 68.0	44.0 93.0	38.0	42.0 29.0	3.5	3.5	4.5 4.1	10.5	0.8	2.2	12.7	-29.6	57.7 64.1	64.5 75.8	0.5	0.3
	17	-	Civil					-	-		-						29.0 33.0												
Portugal	28	4	Civii	2.7	2.1	19880.0	63.4 72.6	0.7	0.5	0.8	-	31.0	27.0	63.0	104.0	28.0	55.0	3.8	4.2	4.6	15.4 13.9	0.8 0.7	6.2	18.8	2.3 -29.7	71.9 67.8	75.6	0.6 0.4	0.3 0.4
Qatar	11	1	-	-	-	-		-	-	-	-	-	-	-	-	-	-	5.1	5.1	4.8			-	-			63.1		
Romania	2	-	Civil	-	-	9480.0	69.4	-	-	0.7	-	42.0	30.0	90.0	90.0	52.0	20.0	2.8	3.1	3.7	3.9	0.8	-	-	-18.0	64.8	74.1	0.5	0.4
Russia	36	2	Civil	2.5	0.6	9720.0	58.2	-	-	0.7	-	36.0	39.0	93.0	95.0	81.0	20.0	3.5	3.9	4.2	7.8	0.8	-	-	-32.4	63.8	68.9	-	-
Saudi Arabia	6	-		1.1	-	21720.0	59.6	-	-	-	-	-	-	-	-	36.0	52.0	3.6	3.7	4.2	8.9	0.8	-	-	-37.1	57.5	62.7	0.5	0.4
Serbia	5	-	Civil	2.2	-	5310.0	62.5	-	-	0.7	-	43.0	25.0	86.0	92.0	52.0	28.0	2.9	3.2	3.5	4.1	0.8	-	-	-24.3	57.5	73.6	-	-
Singapore	35	5	-			51880.0	88.8	-	0.5		39.0	48.0	20.0	74.0	8.0	72.0	46.0	5.0	5.3	5.1	144.9	0.8	-		0.8	64.2	69.0	0.8	0.4
Slovenia	5	-	Civil	2.4	2.3	21620.0	64.8	-		0.8	19.0	19.0	27.0	71.0	88.0	49.0	48.0	4.2	3.8	4.8	71.9	0.9	-	22.0	-23.8	67.6	80.5		-
South Africa	27	6	-	2.0	0.7	5490.0	63.0	-	0.5	0.4	-	63.0	65.0	49.0	49.0	34.0	63.0	4.3	4.4	4.9	5.8	0.7	-	-	-12.6	44.7	61.2	0.4	0.4
South Korea	28	7	-	2.2	2.6	27600.0	73.8	-	0.2	0.8	48.0	39.0	18.0	60.0	85.0	100.0	29.0	4.4	4.4	4.7	249.5	0.9	-	10.1	-12.1	62.3	75.5	-	-
Spain	80	16	Civil	2.4	2.2	27600.0	65.1	0.6	0.5	0.8	35.0	42.0	51.0	57.0	86.0	48.0	44.0	3.5	3.5	4.3	39.0	0.8	3.5	17.0	4.2	78.4	76.8	0.6	0.3
Sri Lanka	16	4	-	-	-	3780.0	57.8	-	0.6	0.7	-	-	-	-	-	-	-	3.7	3.6	4.1	0.7	0.8	-	-	-24.4	60.6	65.9	0.4	0.5
Sweden	120	13	Civil	2.5	3.1	54590.0	76.3	0.7	0.3	0.9	60.0	5.0	71.0	31.0	29.0	53.0	78.0	5.6	5.2	5.8	317.9	0.9	10.3	67.4	19.5	80.5	85.6	0.7	0.3
Switzerland	69	7	Civil	2.1	3.3	81240.0	81.7	0.5	0.4	0.9	-	70.0	68.0	26.0	56.0	74.0	66.0	6.1	5.8	6.2	300.1	0.9	-	16.6	20.6	87.4	81.2	0.7	0.3
Taiwan	253	9	-	-	-	-	76.6	-	0.2	-	-	45.0	17.0	58.0	69.0	93.0	49.0	5.2	4.8	5.1	-	-	-	-	-22.0	72.8	-	-	-
Thailand	64	18	Civil	2.2	-	5640.0	67.1	-	0.5	0.6	-	34.0	20.0	64.0	64.0	32.0	45.0	3.6	3.9	4.1	1.5	0.6	-	-	-17.8	49.9	69.5	0.5	0.4
Turkey	67	7	Civil	2.3	1.8	11230.0	65.4	-	0.6	0.6	21.0	45.0	37.0	66.0	85.0	46.0	49.0	3.3	3.5	4.1	10.9	0.7	11.5	-	-27.8	53.0	68.5	0.5	0.3
Ukraine	1	-	Civil	-	-	2310.0	51.9	-	-	0.7	-	-	-	-	-	86.0	14.0	3.2	3.4	4.3	3.6	0.8	-	-	-31.7	52.9	72.7	-	-
United Arab Emirates	22	5	-	-	-	40480.0	77.6	-	-	-	-	-	-	-	-	-	-	4.5	4.5	5.4	9.4	0.7	-	-	-24.2	58.9	66.0	0.6	0.4
United Kingdom	44	13	Common	1.6	3.3	42330.0	78.0	0.1	0.2	0.8	48.0	66.0	89.0	35.0	35.0	51.0	69.0	5.1	5.4	5.5	99.1	0.9	24.5	26.1	9.6	79.9	78.3	0.7	0.3
United States	230	49	Common	1.2	3.2	56810.0	75.7	0.0	0.2	0.8	62.0	62.0	91.0	40.0	46.0	26.0	68.0	5.9	5.7	6.0	176.5	0.9	19.1	-	-11.0	71.2	72.4	0.7	0.3
Uruguay	1	-	Civil	2.0	-	15230.0	69.2	-	-	0.7	-	38.0	36.0	61.0	100.0	26.0	53.0	2.9	3.3	3.7	2.2	0.7	-	-	-27.0	64.7	71.0	0.5	0.4
Venezuela	4	-	Civil	3.5	-	-	25.2	-	0.5	0.6	-	73.0	12.0	81.0	76.0	16.0	100.0	2.5	3.0	3.6	0.2	0.7	-	-	-35.4	63.9	65.8	0.2	0.3
Vietnam	8	1	Civil	-	-	2100.0	53.1	-	-	0.6	-	40.0	20.0	70.0	30.0	57.0	35.0	3.6	3.5	4.0	0.2	0.6	-	-	-25.6	47.0	67.9	0.4	0.5
Zimbabwe	2	1	-	-	-	890.0	44.0	-	0.6	0.4	-	-	-	-	-	15.0	28.0	2.5	2.5	3.2	0.1	0.5	-	-	-	43.4	56.1	0.2	0.5

Table A: Description of the study variables, by country.N(Tot) = total number of organizations; N(SDG) = total number of SDG reporting organizations.