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1 Corporate social responsibility disclosures in international construction business:

2 trends and prospects

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4

5 Abstract

There is increasing sophistication in corporate social responsibility (CSR) disclosures by 6 international construction companies (ICCs). Nevertheless, a systematic analysis of the trends 7 and prospects is yet to appear. This study fills that knowledge gap by providing an understanding 8 9 of the idiosyncrasies of CSR disclosure and by offering suggestions for future reporting exercises. By examining the top fifty ICCs' CSR/sustainability reports using content analysis, it found that 10 the more negative impacts a company may have, the more remedial strategies it will disclose in 11 a CSR report. ICCs from economically more developed countries maintain a high level of CSR 12 disclosure, while their counterparts from developing countries have caught up in this CSR cause. 13 As a way to improve the consistency and integrity of disclosed information, ICCs are 14 increasingly adopting CSR reporting guidance frameworks and using third-party assurances. 15 CSR disclosures present a high degree of uniformity while they also show nuanced and intriguing 16 17 diversity. This research helps understand comprehensively the trends of CSR disclosure in international construction. It will help ICCs extrapolate their future CSR reporting exercises. 18

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20 Keywords: Corporate social responsibility; Disclosure; International construction business;

- 21 Trends; Prospects; Content analysis
- 22

23 Introduction

Probably no industry offers as many paradoxes as construction corporate social responsibility (CSR). On the one hand, the construction industry has an inherent social responsibility; it materializes the built environment, which influences human health, economic activities, social behavior as well as cultural identity and civic pride (Pearce 2003). The industry makes an important contribution to the national economy, and provides a large number of jobs. It is a hugely important industry in scope and scale; Flanagan and Jewell (2014) estimate global

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construction output of US\$6.8 trillion in 2013, which contributes between 8-10% to the annual 30 global gross domestic product. The industry provides employment for a substantial number of 31 the working population, e.g. around 30 million people in China are employed in construction 32 activities (National Bureau of Statistics of China 2014), 7.2 million in the USA (US Bureau of 33 Labor Statistics 2014), and 11 million in the European Union (EU Construction Statistics 2014). 34 On the other hand, construction is intrinsically 'irresponsible'; it competes with the natural 35 environment and can have an adverse impact upon it, including land degradation, resource 36 depletion, waste generation, and various forms of pollution (Lu and Tam 2013; Zhao et al. 2012; 37 Ofori 1993). Buildings are responsible for more than 40 percent of global energy use and one 38 third of global greenhouse gas emissions (Rode et al. 2011). Corrupt practices are also an issue 39 40 with Transparency International suggesting that construction is one of the top three most corrupt industries in the world. Competition in the construction industry is notoriously fierce. To survive, 41 companies sometimes operate at the expense of societal well-being; producing unsatisfactory 42 work, offering a harsh working environment, and maintaining poor occupational health and 43 safety standards. The conjunction of these paradoxes has brought CSR to the fore; it is now 44 growing in prominence as a core issue confronting the construction industry and its organizations 45 (Murray et al. 2008). 46

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The above paradoxes relating to construction CSR are evident on an international scale. In recent 48 years, advanced technology, fast transportation, convenient communications, effective 49 knowledge transfer, integrated markets, and trade liberalization have all helped the construction 50 business traverse traditional national boundaries into the international arena (Lu et al. 2013). This 51 52 has formed a new business sector known as international construction, which is defined as the part of construction business that is undertaken by companies working on projects outside their 53 home country (Ngowi et al. 2005). As an example of the scale of this business, Engineering 54 News-Record (ENR) statistics show that the ENR Top 250 International Contractors had 55 US\$511.05 billion in contracting revenue in 2012 from projects outside their home countries, 56 along with US\$813.55 billion in revenue from domestic projects (Tulacz 2013). With the 57 increasing globalization of construction business, the social responsibility of international 58 construction companies (ICCs) extends beyond their home country. For example, ICCs 59 undertaking construction business in a host country may also help build a hospital or school for 60 the benefit of the local community. The international construction business is a positive 61 development in terms of value creation, knowledge exchange, and resource configuration and 62

optimization. However, it is also criticized as being relatively irresponsible, given the embodied energy and the carbon emissions associated with mobilizing resources across continents. CSR has immediate material relevance for ICCs in their head and regional offices, at site locations and through extensive supply chains. They increasingly face the effects of extreme poverty, unacceptable working conditions, environmental degradation, systemic corruption or eruptions of violence. In this environment, companies can choose one of two routes: uphold high standards, or try to ignore the situation. Major ICCs will always take the former route.

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A conspicuous trend in recent years is that ICCs, similar to companies in other business sectors 71 (e.g. mining, food, and investment), have published CSR disclosure reports to communicate their 72 CSR commitment and achievements to stakeholders. Unlike other businesses however, an 73 extensive literature review showed that, despite of CSR issues having been discussed in the 74 construction industry (e.g. Petrovic-Lazarevic 2008; Murray and Dainty 2008; Griffith 2011; 75 Bowen et al. 2007; Fox 2000; Liu et al. 2004; and Hill and Bowen 1997), no study has been 76 77 conducted to analyze ICCs' reporting practices systematically. Jenkins and Yakovleva (2006) explored the trends of CSR disclosures in the mining industry using a case study of the world's 78 79 10 largest mining companies. Waller and Lanis (2009) analyzed CSR disclosure patterns in the advertising sector, while Cuganesan et al. (2010) examined CSR disclosures within the 80 Australian food and beverage industry. Jones et al. (2010) investigated corporate approaches to 81 sustainability in the US engineering and construction industry. As elaborated later, sustainability 82 is not quite equal to CSR, although companies at times perceive them as similar. Zhao et al. 83 (2012) provided a set of indicators that can be used to implement CSR in the construction 84 industry and help companies methodically assess their CSR performance. There are pressures on 85 all companies to improve CSR reporting. For example, the Global Reporting Initiative (GRI) sets 86 out minimum requirements in key areas of CSR and companies sign up to report in accordance 87 88 with the requirements. The ISO26000 defines good practice and establishes standards. There is legislation to ensure corruption does not occur, such as the UK Bribery Act 2010 and the US 89 Foreign Corrupt Practices Act 2004 and the US Anti-Corruption Act, and there are voluntary 90 codes on ethical behavior. However, the trends and prospects of CSR disclosures have not been 91 adequately articulated, despite the relevance of the two issues to an understanding of how CSR 92 is actually interpreted, practiced, and reported in international construction. 93

The aim of the study was to explore the trends and prospects in CSR reporting conducted by 95 ICCs. The research is of significant academic and practical value. Firstly, the trends can reveal 96 how the concept of CSR has been interpreted and practiced by ICCs. Jenkins and Yakovleva 97 (2006) noticed that companies show considerable variations in the maturity of the content and 98 style of their CSR reporting. The research will provide an 'epistemological link' (Zhao et al. 99 2012) between the concept of CSR and the real CSR strategies implemented by ICCs. Secondly, 100 exploring the trends of CSR disclosure will help reveal how CSR reporting is standardized. Zhao 101 et al. (2012, p. 279) discovered that there is little uniformity in CSR indicator frameworks, as 102 "these initiatives have evolved in a manner specific to the needs of the jurisdiction at that time 103 and place". Standardization of CSR reporting is advocated as an effective way of communicating 104 CSR strategies and performance to stakeholders, and efforts to increase uniformity are evident 105 in various international standards in this area, e.g. ISO 26000 and Social Accountability 8000. 106 107 Thirdly, the trends to be identified provide useful references against which the idiosyncrasies of CSR disclosures in the international construction business and other sectors can be compared. 108 109 This study is contextualized within international construction not only because it is an important business sector received scant attention from researchers, but also because it provides a 110 111 contrasting lens through which CSR can be fruitfully investigated. Lastly, examining the prospects of CSR disclosure will help ICCs extrapolate their future CSR reporting exercises. 112 Companies spend important resources on producing CSR reports; the research will help them to 113 use the resources more wisely and effectively in disclosing their CSR excellence. 114

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The remainder of this paper is structured into four sections. Subsequent to this introductory section, the theoretical foundation of this study and research hypotheses are elaborated in Section 2. Section 3 provides a detailed description of the research methods, whereby content analysis of the CSR reports disclosed by ICCs is adopted. The fourth section presents the results, discussion, and findings. Section 5 provides conclusions and limitation, and implications for further research.

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123 Theoretical foundation and research questions

Corporate Social Responsibility (CSR) disclosure is seen as "the process of providing information designed to discharge social accountability. Typically this act would ... be undertaken by the accountable organization and thus might include information in the annual report, special publications or even socially oriented advertising" (Gray et al. 1987, p. 4). The

most widely embraced theoretical perspectives explaining motivations for CSR reporting are 128 legitimacy theory and stakeholder theory. According to Waller and Lanis (2009), CSR disclosure 129 is a means of legitimization. Companies do not operate in a vacuum; rather, they impact and are 130 impacted upon by the socio-political context and the stakeholders. Here, stakeholders are any 131 132 individual, group, organization, member or system that affects or can be affected by an organization's actions (Freeman 1983). Stakeholder theory holds that stakeholders have different 133 interests in, and thus have different impacts on a corporation, either positive or negative, and the 134 corporation is seen to be responsible for meeting their interests even though they are outside of 135 the corporation (Freeman 1983). There is a 'social contract' between a company and society 136 formed by various stakeholders (Deegan 2002; Mathews 1993; Patten 1992). Bound by this 137 contract, firms agree to perform various socially desired actions in return for societal approval 138 of their objectives and other rewards, and this ultimately guarantees their continued existence 139 (Deegan 2002; Brown and Deegan 1998; Guthrie and Parker 1989). In this sense, CSR disclosure 140 is a method by which management can interact with society to influence society's perceptions of 141 142 their organization (Deegan 2002), and discharge their obligations (Farook et al. 2011; Campbell 2000). In addition to achieving legitimacy, there are other motivations for a company to engage 143 144 in CSR disclosure. They are: (1) enhancing corporate reputation and brand value; (2) gaining a competitive advantage; (3) signaling superior competitiveness; (4) allowing comparison with 145 146 and benchmarking against competitors; (5) increasing transparency and accountability within the company; and (6) establishing and supporting employee motivation as well as internal 147 information and control processes (Herzig and Schaltegger 2006). To this can be added the 148 opportunity to attract new customers, to attract new investors, to increase trust, to influence 149 150 government policy makers, and to establish a reputation of being a socially responsible company. 151

Nevertheless, there is little consensus on what should be included in CSR disclosures. The terms 152 153 of the 'social contract', or what CSR entails, cannot be known with any precision (Farook et al. 2011). This is further exacerbated by the confusion caused by terminology in CSR. Dahlsrud 154 (2008) identified 37 definitions of CSR and found that the existing definitions are to a large 155 degree congruent, but Carroll and Shabana (2010), contended that this figure is an 156 underestimation, as many academically derived definitional constructs were not included in 157 Dahlsrud's research. The UN Global Compact (2013) suggests the terms 'corporate sustainability' 158 159 and 'corporate responsibility' are interchangeable; whereas the term 'corporate social responsibility' is used to reflect an organization's recognition of its social responsibility. Lu et al. 160

(2014) reported that there is no single, agreed definition of the term CSR. This has resulted in a
 diversity of CSR strategies and reporting amongst companies. Managers have different
 perceptions about these terms, and their CSR disclosures will vary (Waller and Lanis 2009).

Cuganesan et al. (2010) pointed out that one issue of increasing importance is the need to 165 recognize industry specificity when formulating and assessing CSR disclosure. This is in line 166 with Windsor (2001), which argued that how CSR is understood and perceived still largely 167 depends on the business context and the managerial dispositions of each corporation. This also 168 resonates with studies that have identified the nature of a company's industry as a factor affecting 169 CSR disclosure (e.g. Cho and Patten 2007; Yongvanich and Guthrie 2005; Halme and Huse 1997; 170 Roberts 1992). "Industries exhibit special uniqueness in that the internal competencies or 171 external pressures inherent in the industry create a 'specialization' of social interests" (Griffin 172 and Mahon 1997, p. 10). It is to be expected that the heterogeneities of the international 173 construction business, the aforementioned paradoxes in particular, will lead to idiosyncrasies in 174 175 CSR reporting.

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177 According to one theoretical perspective, higher levels of CSR disclosure occur concurrently with increased focus on the problems a company may cause, or the threats of litigation and fines 178 179 it may face (Cho and Patten 2007; Yongvanich and Guthrie 2005). In other words, the more 'irresponsible' impacts a company may have, the more remedial strategies it will disclose in a 180 181 CSR report. It has been well articulated that international construction witnesses many CSR paradoxes, e.g. it providing the built environment by competing against the natural environment, 182 183 and it causing many nuisance to the community. An immediate relevant research question is "Do ICCs disclose more about their commitment to CSR remedial strategies such as energy saving, 184 carbon emission reduction, community care, transparency, occupational health and safety 185 186 (OHS), logistic and supply chain management, transparency, and anti-competitive behavior (Q1)?"Answering this research question is of both theoretical and practical significance. It 187 enables confirmation whether legitimacy theory and stakeholder theory can be applied to explain 188 189 the motivation for CSR disclosure and reveal the issues that should be entailed in the 'social 190 contract'.

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In view of growing global concerns over CSR, it is with no doubt that ICCs will increase their
CSR disclosure level, which reflects the extent to which ICCs have reported their CSR strategies

and consequently, the performance achieved. Previous studies (e.g. Kolk et al. 2001; Maignan 194 and Ralston 2002) have suggested that there are country-specific and industry-specific 195 differences in the extent of CSR reporting. The industry-specific differences and their impact on 196 CSR disclosures, as described above, are to be examined by linking them to the heterogeneities 197 of international construction, in particular the CSR paradoxes. Given that companies in 198 199 developed countries have been striving for some time to meet escalating legal requirements, there is a view that developing countries have more potential in terms of introducing CSR strategies 200 (Lu et al. 2014). The contemporary CSR movement is primarily pushed by the civil society in 201 more economically developed countries, but the movement has great impact on less developed 202 countries in the age of globalization. It is thus posited that ICCs from more economically 203 developed countries will maintain a high level of CSR disclosure, while their counterparts from 204 less developed countries will try to improve their CSR disclosure levels. An immediate research 205 206 question is "Do ICCs from more economically developed countries maintain a higher level of 207 CSR disclosure than their counterparts from less developed countries? (Q2)"

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In parallel with these differing reporting levels, there has been found no uniformity in method of 209 210 CSR reporting. International organizations such as the ISO, the World Resources Institute and the GRI have therefore started developing frameworks to standardize CSR reporting. The move 211 212 towards standardization represents not only a convergence in the language and transparency of CSR, but also convergence of CSR into an agreed concept and a credible form of self-regulatory 213 214 governance over issues that are not externally regulated (Chiu 2010). The GRI, for example, aims to develop a voluntary reporting framework that will elevate sustainability reporting practices to 215 216 a level equivalent to that of financial reporting in rigor, comparability, auditability and general 217 acceptance (Willis 2003). It has recently published the Construction & Real Estate Sector Supplement (CRESS) with the aim of providing sustainability performance indicators and 218 219 disclosures that are important or unique to the sector. This research is conducted at an opportune 220 time, as it is straddling a period that is before and after the publication of an international construction relevant CSR reporting guidance, i.e., CRESS. It would be interesting to find out 221 "Are there more ICCs reporting their CSR performance in accordance with the GRI reporting 222 guidelines and using more third-party assurance to enhance the credibility of the disclosed 223 224 information? (Q3)"

Standardization unnecessarily means no nuanced and intriguing diversity allowed in CSR 226 reporting undertaken by ICCs. The 'social contract' between a corporation and society, which in 227 turn influences CSR disclosures, depends not only on industry specificity, but also on countries. 228 Other than categorizing countries into developed and developing countries in Q2, it needs to 229 230 further examine countries with different cultures and institutions. The international construction business is subject to many onerous regulatory and cultural differences, such as controls on land 231 use; building regulations and technical requirements; building permits and inspection, and 232 environmental regulations. In face of the culture (Kogut and Singh 1988; Tijhuis and Fellows 233 2011) or institutional distance (Bae and Salomon 2010; Lu et al. 2013) between the home and 234 host countries, ICCs would not be able to adopt 'one-size-fit-all' CSR strategies. For example, 235 the culture distance or institutional distance may bring tension and force ICCs to deliberate CSR 236 strategies in host countries, e.g. to reduce poverty, or to improve community health. The cultural 237 238 characteristics of a home country may lead to interesting nuanced difference in CSR disclosures although standardization is advocated. A natural thinking is that they may tailor their CSR 239 240 strategies with respect to the cultural or institutional profile of host countries. It is thus interesting to find out "What are the idiosyncrasies in CSR reporting impacted by cultural or institutional 241 242 difference? (Q4)"

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It is expected that, by examining the above four research questions retrospectively, the prospects of CSR disclosures by ICCs can be regressed. To understand the trends of CSR disclosure as stated in CSR reports is important, while the more meaningful research inquiry is to considering their impact on the future, although it is often risk-prone to extrapolate into the future. To maintain the consistency of presentation, the sixth research question is proposed: "*What are the possible prospects of CSR disclosures by ICCs? (Q5)*".

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251 **Research methods**

The sample of international construction companies (ICCs) was determined by reference to the top international contractors (TIC) lists compiled by *Engineering News-Record (ENR)*, an USbased construction, building and engineering-oriented magazine. Since the late 1970s, *ENR* has ranked the 225 (250 in recent years) largest ICCs based on general construction contracting revenues generated from projects outside each firm's respective home country. The top 50 on the 2013 ENR TIC list were selected as the sample (See Table 1). Among the sample ICCs, twentyone companies are from Europe, twenty from Asia and Australia, eight from the USA, and one

from Brazil. It might not be entirely valid to identify the 'nationality' of a company, owing to 259 260 frequent mergers and acquisitions across country borders in the international construction business. For example, the No. 1 company by the name of 'Grupo ACS' in Spain is the majority 261 shareholder in the second highest company named 'Hochtief AG' from Germany; and meanwhile 262 these two companies are the principal shareholders of 'Leighton Holding' from Australia. 263 Nationalities are thus better seen as the 'national origins' of a company. The ICCs' main line of 264 business is based on ENR 2013 (Tulacz 2013), which states that a business taking up 20% or 265 above of the company's total revenue is deemed to be the company's main line of business. 266

Rank* Name National Main Rank* Name National Main origin business origin business lines# lines# 1 Grupo ACS GB, TA 26 Daelim S. Korea IP Spain 2 Hochtief Germany GB, TA 27 Salini Italy TA, WS Bechtel USA IP, TA GS E&C S. Korea IP 28 3 4 Vinci France ΤA 29 KBR USA ΤA 5 Flour USA IP 30 Abeinsa Spain PO TA GB, IP, 6 Strabag Austria 31 Leighton Australia TA IP Bouygues TA JGC 7 France 32 Japan GB 8 Saipem Italy IP 33 Lend Lease Australia CREC TA, GB 9 Skanska Sweden GB, TA 34 China CCCC IP China ΤA 35 SK E&C S. Korea 10 11 Technip France IP 36 Samsung C&T S. Korea PO 12 TA, IP CB&I U.S.A. IP Odebrecht Brazil 37 Organization IP IP 13 Samsung S. Korea 38 Tecnicas Reunidas Spain Engineering IP, PO 14 FCC Spain GB, TA 39 Kiewit U.S.A. 15 Hyundai S. Korea PO, IP Daewoo E&C S. Korea IP, PO 40 E&C 16 Bilfinger Germany IP 41 Danieli & C Italy IP GB, TA 17 Balfour UK 42 McDermott U.S.A. IP Beatty IP CITIC 18 Petrofac UK 43 China GB 19 Royal BAM The GB, TA 44 Foster Wheeler U.S.A. IP, PO Netherlands PO, TA Sinohydro China Isolux Corsan Spain PO, TA 20 45 CCG Greece IP, TA POSCO S. Korea IP, PO 21 46 22 PCL USA GB, IP 47 Obayashi Japan GB, TA OHL TA IP, PO 23 Spain **48** Larsen India GB, TA 24 CSCEC China 49 Spain TA, GB Acciona

Table 1. Profiles of the top 50 international construction companies in the selected sample

| 25 | China | China | PO, IP | 50 | Kajima | Japan | GB, MA |
|----|-----------|-------|--------|----|--------|-------|--------|
| | Machinery | | | | | | |

* The ranks are based on the year 2013.

270 # GB=General Building; MA=Manufacturing; PO=Power; WS=Water Supply; SW=Sewer/Waste;

271 IP=Industrial/Petroleum; TA=Transportation; HW=Hazardous Waste; and TE=Telecom.

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CSR reports of the sample ICCs over the past five years (2008–2012) were retrieved from their 273 274 websites. The TIC 50 is not a static group; they will change each year on the list dependent upon 275 performance; some firms even drop off the lists in certain years. It is common practice for ICCs to communicate their CSR strategy and performance through the Internet as a major channel with 276 some having developed a themed website for this purpose. Companies published either 277 sustainable development/sustainability reports or CSR reports, which is not particularly 278 unexpected given that there is no clear boundary between the two concepts (Ebner and 279 Baumgartner 2006). Two ICCs named 'JGC' and 'SK E&C' publish environment reports to 280 show their CSR performances with regard to the environment. A total of 155 CSR/sustainability 281 reports were collected for analysis, putting aside the question of whether the two concepts are 282 one and the same. 283

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The CSR/sustainability reports were coded using content analysis; an approach adopted by many researchers to analyze CSR reporting (e.g. Roca and Searcy 2012; Jenkins and Yakovleva 2006; Wilmshurst and Frost 2000). Content analysis is a systematic, replicable technique for compressing many words of text into fewer content categories based on explicit rules of coding (Krippendorff 2012; Stemler 2001). It is a continuous and iterative process characterized by two key stages, the first of which requires managing the data, and the second stage involving making sense of the evidence through descriptive or explanatory accounts (Burden and Roodt 2007).

292

An instrument as shown in Table 2 has been developed as the protocol for decoding CSR reports. The instrument includes indicators, which are not specifically included in the CRESS G3.1 but are frequently mentioned in reports, such as Information Transparency (IT). There are six groups with 23 sub-categories of performance indicators in total listed in Table 2: (1) EN- Environment (5 sub-categories); (2) SO- Society (4 sub-categories); (3) LA- Labor Practices and Human Rights (6 sub-categories); (4) PR- Product Responsibility (2 sub-categories); (5) IT- Information Transparency (3 sub-categories); and (6) EI- Economic Indicators (3 sub-categories).

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- 301

| Codes | Categories | Codes | Sub-categories | Stakeholders related |
|-------|-------------------------------------|-------|--|------------------------------------|
| EN | Environment | EN1 | Materials | The Public |
| | | EN2 | Energy | The Public |
| | | EN3 | Water | The Public |
| | | EN4 | Biodiversity | The Public |
| | | EN5 | Emissions, effluents and waste | The Public |
| SO | Society | SO1 | Community | Local Communities |
| | | SO2 | Code of Conduct/ Ethic | Local Communities |
| | | SO3 | Anti-Corruption | Local Communities |
| | | SO4 | Anti-Competitive Behavior | Competitors |
| LA | Labor Practices and Human Rights | LA1 | Diversity and Equal Opportunity | Employees |
| | | LA2 | Training and Education | Employees |
| | | LA3 | Occupational Health and Safety | Employees |
| | | LA4* | Work- Life balance | Employees |
| | | LA5* | Salary policy/ Benefits | Employees |
| | | LA6* | Employee Feedback | Employees |
| PR | Product Responsibility | PR1 | Customer Health and Safety /Quality | Clients and future users |
| | | PR2 | Product and Service Labeling | Clients and future users |
| IT* | Information | IT1* | Media | The Public |
| | Transparency | IT2* | Intra-corporate | Employees |
| | | IT3* | Reported to markets | Shareholders |
| EI | Economic Indicators | EI1 | Economic performance | Shareholders |
| | | EI2 | Market presence | Suppliers and Local Communities |
| | | EI3 | Indirect economic impacts | Local Communities |

302 Table 2. The protocol for decoding CSR reports

303 *Aspects summarized from the corporate reports

304

305 The 23 CSR performance indicators in each of the 155 SD/CSR reports were manually coded into a MS Excel file. If a report disclosed a certain indicator, it was noted with a " $\sqrt{}$ " in the Excel 306 file; otherwise, the indicator was marked with a "-". This laborious coding process produced a 307 very large table (called Table A), a part of which is shown in Table 3. The table describes the 308 CSR performance reported by ICCs over the past five years. The process was also with the 309 assistance of qualitative data analysis software "Leximancer" that automatically identified high 310 311 level concepts in the documents. To reduce the inherent subjectivity and potential variance, a second coder repeated the process independently and produced another table (called Table B). 312 To ensure the consistency of the works from the two independent coders, Cohen's Kappa 313 coefficient could have been applied, but a more straightforward method was adopted. The two 314 excel tables, having an identical structure, were subtracted from each other, i.e. Table A-Table 315

B. Those cells/indicators scoring a result other than "0" meant an inconsistency between the two coders. The reports were then analyzed again to determine whether the indicator in question had in fact been reported. This process was repeated until all the cells scored a "0", meaning that full agreement between the two coders had been achieved. The finalized Excel table, formed an information hub for data analyses.

Table 3. An excerpt of the data table generated from the content analyses of the CSR reports

| | 1 | 0 | | | | | | | | | | | | |
|---------|-----------------------|----------------------|----------------|--|-----------------------|--------------------|-------|--------------|--------------------------------------|--------------|------------------------------|-------------------------|-----------------------------------|---|
| Company | | | | EN-Environmental Performance Indicators | | | | | SO-Society | | | | | |
| | | | | Typles of Report | EN1 | EN2 | EN3 | EN4 | EN5 | SO1 | SO2 | SO3 | SO4 | |
| Ranking | Name | Country | Years | | Materials | Energy | Water | Biodiversity | Emissions, effluents and waste | Community | Code of Conduct/ ethic | Anti- Corruptio n | Anti- Competitive Behaviour | |
| | | | 2008 | Corporate Responsibility/ Annual Report | V | V | V | V | V | V | V | - | _ | |
| | | | 2009 | Corporate Responsibility/ Annual Report | V | V | √ | √ | \checkmark | \checkmark | √ | - | - | |
| 1 | Grupo ACS | Madrid, Spain | 2010 | Corporate Responsibility/ Annual Report | V | V | √ | √ | V | \checkmark | V | - | - | |
| | | | 2011 | Corporate Responsibility/ Annual Report | V | V | V | V | V | √ | V | - | - | |
| | | | 2012 | Corporate Responsibility/ Annual Report | √ | V | V | V | V | √ | V | √ | √ | |
| | HOCHTIEF AG (Hochtief | Essen, Germany | 2009 | Sustainability Report | √ | √ | √ | √ | \checkmark | V | √ | V | _ | |
| 2 | Aktiengesellschaft) | | Essen, Germany | 2011 | Sustainability Report | √ | √ | √ | √ | √ | V | √ | √ | _ |
| | | | 2012 | Sustainability Report | √ | √ | √ | √ | √ | √ | √ | √ | √ | |
| | | - | 2008 | The Bechtel Report | √ | - | - | _ | √ | - | - | - | _ | |
| | | | | | 2009 | The Bechtel Report | - | - | - | _ | √ | - | - | - |
| 3 | Bechtel | San Francisco,U.S.A. | 2010 | The Bechtel Report | - | _ | - | - | - | √ | √ | - | _ | |
| | | - | 2011 | The Bechtel Report | √ | V | - | - | √ | √ | √ | - | _ | |
| | | | 2012 | The Bechtel Report | √ | V | - | - | √ | √ | √ | - | _ | |
| | | - | 2008 | Annual Report | - | _ | - | _ | √ | √ | _ | - | - | |
| | | Rueil- | 2009 | Annual Report | - | √ | √ | √ | √ | √ | √ | - | _ | |
| 4 | Vinci | Malmaison,France | 2010 | Annual Report | - | √ | - | √ | √ | √ | √ | - | - | |
| | | - | 2011 | Annual Report | - | √ | - | √ | √ | √ | √ | - | - | |
| | | | 2012 | Annual Report | _ | _ | - | √ | V | \checkmark | \checkmark | _ | _ | |

Based on the analyses of the quantitative data in the table, CSR reports were used as qualitative data to deepen the understanding of CSR strategies and their performance reported by the ICCs. The authors have conducted a few informal discussions with executives of top ICCs different occasions over the past years to solicit their insights on CSR. This was used as qualitative data to be triangulated with the quantitative and qualitative data decoded from the CSR reports. The data will be analyzed and blended together in this paper to ensure an uninterrupted reading journey in understanding the trends and prospects of CSR disclosures by ICCs.

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333 **Results, analysis and discussion**

334 *Profile disclosure*

Table 4 shows that CSR disclosure reports have a diverse range of titles. They may be referred 335 to as CSR reports (e.g. CCCC), corporate responsibility reports (e.g. Grupo ACS), sustainability 336 reports (e.g. Fluor Corporation), environment reports (e.g. JGC), annual reports (e.g. Vinci), or 337 named after the company name (e.g. the Bechtel reports). Some of the ICCs (e.g. Skanska AB) 338 339 published part of their annual report on their CSR/sustainability disclosure website. The diversity of these titles reflects the absence of a single and agreed definition of the term CSR (Carroll and 340 341 Shabana 2010), and the blurred boundary between sustainability and CSR (Ebner and Baumgartner 2006). It was ascertained that all of them do disclose CSR/sustainability strategies 342 343 and performance, and can thus be treated as a homogeneous group.

344

| 345 | Table 4. T | Types of 1 | reports used | by I | CCs for | CSR disclosu | re |
|-----|------------|------------|--------------|------|---------|--------------|----|
|-----|------------|------------|--------------|------|---------|--------------|----|

| | | Total reports | | | | | |
|-------|----------------|---------------------------|------------------------|-------------------|----------------------------------|--------|--|
| Years | CSR reports | Sustainability reports | Environment reports | Annual reports | Incomplete report/ website | (?/50) | |
| 2008 | 6 | 9 | 0 | 4 | 1 | 20 | |
| 2009 | 7 | 12 | 2 | 3 | 1 | 25 | |
| 2010 | 6 | 16 | 2 | 5 | 1 | 30 | |
| 2011 | 8 | 15 | 2 | 6 | 2 | 33 | |
| 2012 | 9 | 19 | 2 | 7 | 10 | 47 | |

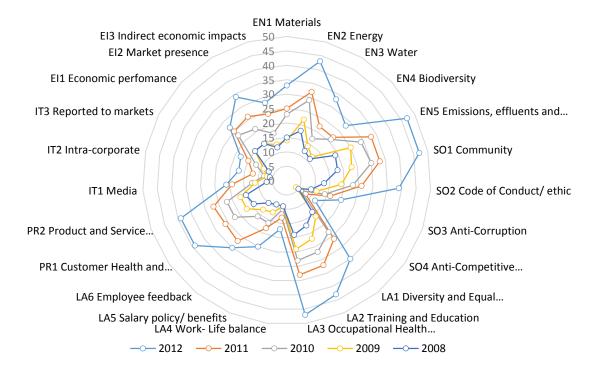
346

The last column of Table 4 shows that the total number of CSR reports disclosed by ICCs has increased over the period, i.e. five years from 2008 to 2012 inclusive. In 2012, 47 out of the 50 sample ICCs published a CSR report or its equivalent. CSR reporting, while not mandatory in most countries, has been adopted by many large ICCs around the world. This trend may reflect on one hand stakeholders' increasing influence on the operation of corporations and, on the other
hand corporations are becoming more willing to use CSR disclosure as a means of interacting
with society.

354

355 *Q1: Do ICCs disclose more about their commitment to CSR remedial strategies?*

Based on the basic data in Table 3, specific types of CSR strategy and performance disclosure 356 were analyzed. This involved counting each " $\sqrt{}$ " of a specific indicator as 1 point across all the 357 sample reports, and plotting the total points in the spider diagram as shown in Fig. 1. The total 358 points of a specific indicator reflect the number of companies that have reported the indicator in 359 a given year. The diagram shows that EN5 (Emissions, effluents and waste), SO1 (Community), 360 and LA3 (Occupational Health and Safety) are the three most frequently reported CSR indicators. 361 All the reports in 2011(33/33) and 2012(47/47) included these three indicators, and in the years 362 from 2008 to 2010, over 90% of the companies elaborated these three strategies in their reports. 363 The analytical results support the assumption that the more negative impacts a company may 364 365 cause, the more remedial strategies it will disclose in a CSR report. The indicators with a long axis in the spider diagram are all problematic aspects that ICCs can improve upon for the benefit 366 367 of society, or their legitimacy of existence as a company will be challenged. The CSR reports have frequently mentioned their commitment to stakeholders such as employees, clients and 368 369 future users, shareholders, suppliers, and particularly, local community and the general public (Table 2), even though the latter are outside of the corporation. Legitimacy theory and 370 371 stakeholder theory do hold in ICCs' CSR reporting practice.



- 373
- 374

Fig. 1. CSR performance indicators disclosed by ICCs (2008-2012)

375

376 Construction is a major contributor to environmental degradation, e.g., by generating greenhouse gas emissions, discharged water, and waste. The ICCs reported their CSR policies and 377 378 technologies, for dealing with these issues. Construction also has a significant impact on the local community and so the ICCs devise their CSR commitment to deal with the nuisances and help 379 380 the community. Construction is notorious for the hardship of its working environment: many view it as a 3D (dangerous, dirty, and demanding) industry, and OHS incidents are sometimes 381 reported. The ICCs in the sample disclosed CSR strategies to address these issues, which include 382 ensuring that employees have adequate training in the safe use of all plant, machinery, substances, 383 and other OHS issues. EN2 (Energy), SO2 (Code of Conduct/Ethic) and LA2 (Training and 384 Education) also attracted much attention in the CSR disclosures. It can be seen from Fig. 1 that 385 80%–90% of the sample companies reported these indicators in the past five years. Table 5 lists 386 examples of the detailed CSR strategies and performance disclosure on the above frequently 387 reported aspects. For example, Vinci disclosed quantified performance in reducing emissions, 388 effluents and waste. Skanska highlighted it being the world's largest investment in OHS 389 implemented by a single company. 390

- 391
- 392

Table 5 Examples of CSR strategies and performance frequently reported by

394 international construction companies

| Company | CSR strategies and performance |
|----------|---|
| | Emissions, effluents and waste (EN5) |
| Vinci | Vinci has been measuring its GHG emissions according to the ISO 14064 standard |
| | across its worldwide scope since 2007. Its greenhouse gas emissions amounted to 62 |
| | tons of CO ₂ per million euros of revenue in 2012, which constitutes a 13% fall from |
| | 2009. In the annual Carbon Disclosure Project review, Vinci obtained a score of |
| | 80/C, up five points from 2011. |
| Fluor | Fluor established its global carbon footprint baseline in 2006 for its offices, fleets at |
| | those offices and air travel, so that it can effectively manage operations in an |
| | environmentally responsible manner. |
| | Communities (SO1) |
| Hochtief | The company focuses its activities on two main issues: educating and promoting |
| | young talent, and shaping the maintaining living spaces. |
| Bechtel | Partnerships have been formed with five nonprofit organizations (NGOs) to enhance |
| | the company's positive impact in communities. Bechtel volunteers engage in the |
| | global work of these partners, focusing on the education of children, particularly in |
| | the areas of science, technology, engineering, and mathematics. |
| Strabag | The Concordia aid organization has been caring for abandoned children in Romania, |
| SE | Moldova and Bulgaria. The group also cares for older people in need. |
| | OHS (LA3) |
| Skanska | For the eighth consecutive year, a Skanska Safety Week has been organized, which |
| | according to Skanska (2014) is the world's largest investment in occupational health |
| | and safety implemented by a single company. |
| GS | GS has established formal joint management-worker health and safety committees in |
| | which a certain percentage of the total workforce must be represented. |
| CCCC | CCCC protects establishes a sound labor protection mechanism and systems on |
| | employees' regular annual physical examination and special examination of special |
| | trades and harmful types of work. |
| | Energy (EN2), Code of Conduct/Ethic (SO2), and Training and Education (LA2) |
| Saipem | Saipem installed 49 solar water heater panels on Saipem Karimun base in Indonesia |
| | which will help save 97,000kWh energy and reduce CO2 emissions by approximatel |
| | 20 tons. |
| Balfour | To conduct business with integrity, Balfour Beatty requires its employees to take an |
| Beatty | online Code of Conduct training module. The company has introduced an Ethics |
| | Helpline and opened other channels so that employees and others can report behavior |
| | that is or is suspected to be unethical or in breach of the Code of Conduct. |
| Grupo | The company has programmes for continuous training and skills development, aimed |
| ACS | at meeting employees' training needs for correct execution of their work and for |
| | personal and professional development. |

A similar phenomenon that companies disclose more about their strategies that can help remedy 396 the negative impacts they may cause can also be witnessed in other industries. For example, in 397 the beverage industry, Starbucks and Coca-Cola promote fair trade of coffee beans and cocoa 398 beans respectively (Argenti 2004), while the food industry mainly focuses on product 399 400 responsibility (Cuganesan et al. 2010). The finance industry mainly concentrates on socially responsible investing (SRI) (Hillman and Keim 2001; Renneboog et al. 2008). Although there is 401 perpetual concern that investing in CSR will jeopardize corporate financial performance (CFP) 402 (Lu et al. 2014; Margolis and Walsh 2001; Orlitzky et al. 2003), CSR strategies that are 403 embedded in the companies' business lines may create a 'win-win' CSR/CFP situation. Notably, 404 some of the ICCs highlighted construction as a direct contributor to CSR. CCCC sees its 405 transportation infrastructure business as playing a positive role in promoting regional economic 406 development, providing more employment opportunities, and encouraging the development of 407 408 relevant materials and equipment supply.

409

410 Nevertheless, this research discovered findings that are against our previous assumption about CSR disclosures - some of the reported CSR strategies, such as providing training for the local 411 412 community, appear not to be linked to the ICCs' construction business. Although education is recognized as a universal value, comments from top ICC executives implies that this CSR 413 414 strategy, similar to philanthropy, is seen as an indirect strategy bringing immediate benefit while causing 'less trouble' to the company at a later stage. Moreover, the theoretic perspective that 415 416 companies tend to disclose more about their commitment to CSR remedial strategies does not hold in the aspects coded SO3 (Anti-Corruption), SO4 (Anti-Competitive Behavior), LA4 417 418 (Work-life balance), and IT2 (Intra-corporate Information Transparency). For example, although corruption issues have not diminished in recent years, there have been fewer disclosures of 419 corruption issues in ICCs' CSR reports, suggesting this is a sensitive issue that ICCs do not wish 420 421 to be publically discussed. This accords with the view of O'Donovan (2002) that CSR disclosures vary according to the intent of the discloser. 422

423

424 Q2: Do ICCs from more economically developed countries maintain a higher level of CSR 425 disclosure than their counterparts from less developed countries?

Based on the basic data in Table 3, CSR disclosure levels were analyzed. Each " $\sqrt{}$ " for a specific indicator in a report was counted as 1 point; the total points for a report in a specific year could then be viewed as the company's CSR disclosure level, i.e. the extent to which an ICC reported

their CSR performance. Whereas previous studies (e.g. Cuganesan et al. 2010; Jenkins and 429 Yakovleva 2006) used number of pages as proxies for disclosure levels, appearance of the 430 indicators is believed to be more helpful for probing into CSR disclosure. Since there are 23 431 indicators (see Table 2), the maximum disclosure level a company can possess is 23. Table 6 and 432 Fig. 2 show the total disclosure levels contributed by the ICCs as a whole on a yearly basis, 433 showing both the number of reports and the reporting levels increasing. ICCs as a whole have 434 increasingly enriched the content of their CSR disclosure, evidenced by the increasing average 435 disclosure levels per report and the converging standard deviation. Table 7 shows the annual 436 numbers of reports by region from 2008 to 2012, from which it can be clearly seen that ICCs in 437 European countries pay more attention to the disclosure of CSR activities while Asian companies 438 are catching up in this regard. 439

440

441 Table 6. ICCs' CSR disclosure levels on a yearly basis

| 2008 | 2009 | 2010 | 2011 | 2012 |
|---------|-------------------------------|---|--|---|
| 20 | 25 | 30 | 33 | 47 |
| [0-460] | [0-575] | [0-690] | [0-759] | [0-1081] |
| 289 | 344 | 449 | 540 | 722 |
| 14.45 | 13.76 | 14.97 | 16.36 | 15.36 |
| 5.40 | 5.46 | 4.67 | 4.11 | 4.54 |
| | 20 [0-460] 289 14.45 | 20 25 [0-460] [0-575] 289 344 14.45 13.76 | 20 25 30 [0-460] [0-575] [0-690] 289 344 449 14.45 13.76 14.97 | 20 25 30 33 [0-460] [0-575] [0-690] [0-759] 289 344 449 540 14.45 13.76 14.97 16.36 |

442 * Potential range of disclosure level= No. of reports*23, since the maximum disclosure level for each
443 report is 23.

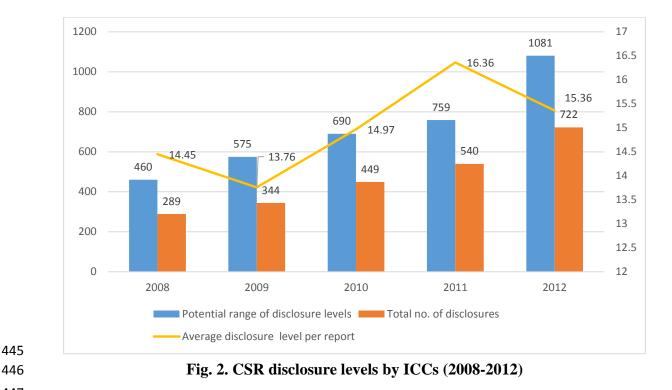




Table 7. The numbers of reports disclosed by ICCs from different countries or regions 448

| | | - Total Doporta | | | |
|-------|---------------------|---------------------------------|---------|--------|-----------------|
| Years | Europe ^a | Asia and Australia ^b | U.S.A | Brazil | - Total Reports |
| | (21) ^c | (20) ^c | ° (8) ° | | (?/50) |
| 2008 | 9 | 8 | 2 | 1 | 20 |
| 2009 | 11 | 12 | 2 | 0 | 25 |
| 2010 | 13 | 13 | 3 | 1 | 30 |
| 2011 | 14 | 16 | 2 | 1 | 33 |
| 2012 | 21 | 18 | 7 | 1 | 47 |

449 a. Reports from companies in Spain, France, Germany, Italy, U.K, Sweden, Netherlands, Greece and Austria are

450 included in this column.

451 b. Twenty ICCs from four Asian countries (China, South Korea, Japan and India) and Australia were ranked as top 452 50 by ENR in 2013.

c. The numbers in the brackets are the numbers of ICCs from that country/region. 453

454

To further examine the impact of country-specific differences on the extent of CSR reports, the 455 companies have been arranged into four groups according to different regions divided by ENR: 456 (1) Europe; (2) Asia and Australia; (3) the USA; and (4) Latin America (Brazil). Fig. 3 illustrates 457 the annual CSR disclosure levels by the different regions, and Figs. 4, 5, and 6 illustrates the 458 levels at individual company level. European ICCs all have high levels of CSR disclosure, which 459 they have maintained over the past five years. Through this disclosure, they are seemingly more 460 willing to interact with society, making themselves more 'caring' companies. ACS and Abeinsa 461

from Spain, and Balfour Beatty from the UK are the three top ICCs which possess highest CSR 462 disclosures levels. Asian and Brazilian ICCs are catching up and increasing their CSR disclosure 463 levels to an extent that is similar to developed world ICCs. Larsen from India, Kajima from Japan, 464 and CREC from China are the three top Asian ICCs having high CSR disclosure levels. With 465 globalization, and in view of the heightening concerns surrounding the international construction 466 business, ICCs from non-Western countries have joined the CSR cause. For example, Chinese 467 ICCs, irrespective of the fact that they are emerging as amongst the strongest contenders in the 468 global construction market (Lu et al. 2009; Low and Jiang 2003), have made significant strides 469 in reporting CSR since 2010. Partly, this is due to pressure from the Chinese government to make 470 their State Owned Enterprises more socially responsible, and partly a recognition that socially 471 responsible investment influences the share price of a business, although the structure of the 472 Chinese capital market poses serious questions for the SRI development in China. Chinese 473 474 investors have not yet developed an appetite for SRI. The Chinese securities market has been famous for excessive speculation. Indigenous Chinese investors are obsessed with short-term 475 476 profits, rather than long-term investment (Lin 2010). In the face of the criticism, for example, the US Secretary of State Hillary Clinton warning of a creeping "new colonialism" in Africa 477 478 (Lee 2011), Chinese ICCs have started to publish CSR reports in English. Strangely, the large group of American ICCs seems to publish CSR reports only on an ad hoc basis. Only Flour and 479 480 Bechtel disclose their CSR performance regularly (See Fig. 6).

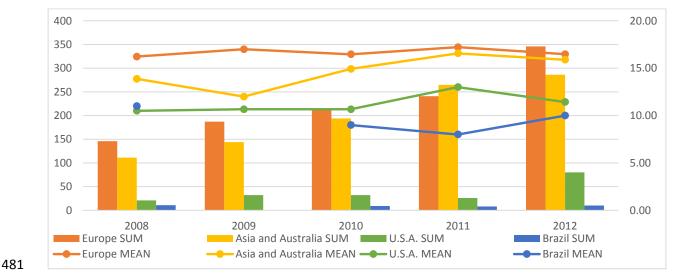


Fig. 3 CSR disclosure levels per annum by ICCs from different regions (2008-2012)

483

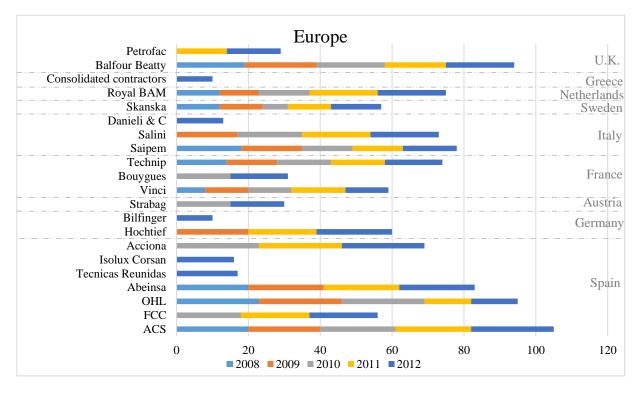




Fig. 4. CSR disclosure levels per annum by European ICCs (2008-2012)

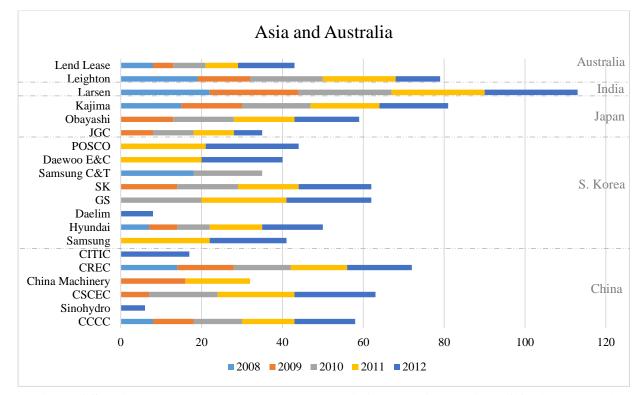


Fig. 5. CSR disclosure levels per annum by all Asian and Australian ICCs (2008-2012)

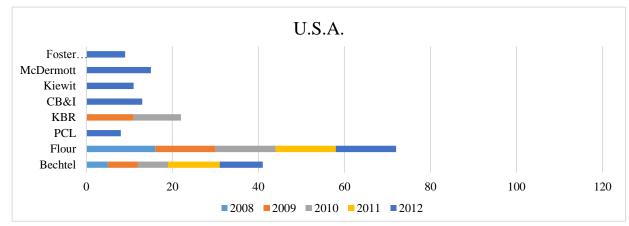




Fig. 6. CSR disclosure levels per annum by US ICCs (2008–2012)

492

493 Q3: Are there more ICCs reporting their CSR performance in accordance with the GRI 494 reporting guidelines and using third-party assurance to enhance the credibility of the disclosed 495 information?

Table 8 shows that ICCs are increasingly reporting their CSR strategies and performance in 496 497 accordance with the GRI Sustainability Reporting Guidelines. Usually, companies state explicitly their compliance with GRI guidelines in their reports, e.g. "the ACS Group's Corporate 498 Responsibility Report is prepared according to the GRI's A+ standard and is verified annually". 499 500 The reports published in 2012 largely follow the G3.1 Guidelines. Some companies (e.g. Hochtief AG) have followed the CRESS recently published by the GRI. Standardization of CSR 501 502 reporting is seen as particularly necessary by the GRI, which aims to develop a reporting system framework to provide metrics and methods for measuring and reporting sustainability-related 503 504 impacts and performance. The emergence of the guidelines provides a useful tool for ICCs to 505 organize the contents of their CSR reporting. By providing the indicative aspects of CSR 506 reporting, they can even impact the CSR strategies a company may adopt, although currently 507 there is no evidence to support this assumption. While it is observed that ICCs' CSR disclosures 508 are converging to the GRI and its guidelines, it is found out that companies also frequently reported their own CSR commitment in aspects such as work-life balance, and information 509 transparency, which have not been clearly included in the guidelines. In part, this is because CSR 510 is not specifically embodied in company law, although there is a requirement for disclosure of 511 512 certain CSR activities, hence ICC disclosure is based on company priorities. There has been debate about the inclusion of CSR in company law as it would help to clarify the purposes of a 513 company: profit-making and social responsibility. However, a different viewpoint is that the 514 inclusion of CSR in company law would endanger the for-profit nature of corporations. 515

| | 2008 | 2009 | 2010 | 2011 | 2012 |
|-----------------------------------|------|------|------|------|------|
| Total No. of reports | 20 | 25 | 30 | 33 | 47 |
| No. of reports in accordance with | 14 | 19 | 21 | 24 | 27 |
| the GRI reporting guidelines | 14 | 19 | 21 | 24 | 21 |
| No. of reports using third-party | 6 | 7 | 10 | 12 | 13 |
| assurance | 6 | 1 | 10 | 12 | 15 |

516 Table 8. The numbers of total CSR reports, those following the GRI standard, and those

518

517

using third-party assurance

519 Another interesting finding is that the ICCs are increasingly including third-party assurance in 520 their CSR reports to enhance the credibility of the disclosed information. GRI external assurance 521 normally assesses a report in terms of its application levels, and does not provide an opinion on the sustainability performance of the reporter nor the quality of the information in the report. For 522 523 example, the ACS Group used KPMG to perform a limited assurance review on the non-financial information contained in its CSR reports. While it has been common practice for financial 524 information to be verified through internal and external audits by an independent auditor, 525 526 verification of CSR information is relatively new in the international construction business. This resonates with Jenkins and Yakovleva's (2006) finding that there has been a gradual increase in 527 levels of assurance in the mining industry, but even where assurance exists, it usually audits 528 quantifiable environmental and health and safety indicators, while avoiding the more complex 529 530 qualitative social measures.

531

532 *Q4*: What are the idiosyncrasies in CSR reporting impacted by cultural and institutional 533 difference?

The pattern of performance indicators is further examined by linking it to ICCs' 534 cultural/institutional profiles. Interesting research findings are discovered. As can be seen from 535 Table 9, Japanese ICCs particularly emphasize the importance of 'work-life balance' (LA4) in 536 537 their CSR disclosure. Obayashi prefers to promote work-life balance by reducing overall work time, acquiring a certification from the Japanese government and promoting the healthy minds 538 and bodies of employees and their families. This is attributable to the profound influence of 539 Confucianism. Lu et al. (2009) reported that Confucianism shaped the foundation of social values, 540 which admire loyalty, obedience, hardworking, modesty, and so on, in not only China but also 541 542 other East Asian countries. Under this culture background, hardworking is widely accepted as the norm across a swathe of business sectors, particularly in construction. The hardworking 543

culture, however, has evolved into a certain stage that 'work-life balance' should be upheld. 544 Interestingly, 'work-life balance' has not frequently mentioned by Chinese or Korean ICCs (see 545 Table 9). The temptation is to further examine it by connecting it to the construction productivity 546 in different countries. Similarly, within Europe, a Greek registered company will have different 547 values to a Swedish company. 'Code of conducts/ethics' (SO2) is most frequently reported by 548 ICCs from Western European countries such as UK, Germany, Spain, and Italy. All the seven 549 Spanish companies, the three Italian companies, and the two UK companies disclosed the 'Code 550 of conduct/ethics' in the investigated years. It is generally considered that these countries have a 551 relatively high ethical standard as a guide for the professional practices especially in ethical, 552 social and environmental matters. The standard must not be lessened when they conduct 553 construction business in host countries. A characteristic of ICCs is that they are domiciled and 554 registered in their home country with a regulatory and social framework that must be complied 555 556 with, they are also working in countries with very different regulatory and social requirements. When they publish CSR reports, their audience is the shareholders, customers, and society in 557 558 their home domicile, and customers and society in the other countries in which they operate. Contrasting operational standards of the USA with Indonesia are very different, yet cannot be 559 ignored. 'Market presence' (EI2), which includes procedures for local hiring for all direct 560 employees from contractors and sub-contractors (CRESS 2014), is also an indicator that is 561 562 particularly disclosed by EU countries' ICCs. They are strong in construction 'know-how' and do not have a large group of directly hired workers. They also source their construction materials 563 564 and machinery on a global scale. These provide an opportunity for the ICCs to achieve CSR excellence throughout their global logistics and supply chain. Notably, for unknown reason, the 565 American ICCs are not particularly remarkable in disclosing their commitment in either 'Code 566 567 of conduct/ethics' or 'Market presence'.

| 569 | Table 9. Analyses of unique CSR disclosure by countries/regions |
|-----|---|
| | |

| Indicator | Countries/Re | No. of | No. of | Disclosure | Duanantian |
|------------------------------|---------------------|------------------------------|--------|---------------------|------------|
| mulcator | gions | gions Companies ^a | | Levels ^a | Proportion |
| T A A XX7 1 1°6 | Japan | 3 | 13 | 12 | 92.31% |
| LA4 Work-life - balance - | China | 6 | 18 | 7 | 38.89% |
| | S. Korea | 8 | 21 | 8 | 38.10% |
| SO2 Code of | Europe ^b | 15 | 49 | 47 | 95.92% |
| Conduct/Ethics | U.S.A. | 9 | 20 | 14 | 70.00% |
| EI2 Market | Europe ^b | 15 | 49 | 46 | 93.88% |
| Presence | U.S.A. | 9 | 20 | 14 | 70.00% |

- a. Number of companies, Number of Reports and Disclosure Levels include the data of 5 years from
- 571 2008 to 2012 inclusive;
- b. Four countries' companies (Spain, France, Italy, and UK) are included in the group of "Europe".
- 573

574 Other interesting idiosyncrasies in CSR reporting impacted by cultural and institutional difference have been discovered. For example, the oxymoron of CSR might be doubled when it 575 comes to China, as CSR is perceived as volunteering in many cultures while in China assuming 576 CSR is regulated by Article 5 in its Company Law revised in 2005. In the UK, anti-corruption 577 actions are particularly promoted. Balfour Beatty is the corporate supporter of TI, the Institute 578 of Business Ethics and the UK Anti-Corruption Forum by working with all three organizations 579 to help develop and share best practice and promote the objectives. One notable trend is that 580 ICCs would not adopt 'one-size-fit-all' CSR strategies; rather, they devise tailor-made CSR 581 strategies to possibly shorten the cultural/institutional distance between home and host countries. 582 583 Differences in philanthropical activities result mainly from the differences in the regions in which ICCs operate and the prevailing social welfare policies and cultural norms of the regions. Usually, 584 ICCs aim to gear the social commitment toward the needs of the society. For example, Hochtief 585 Asia Pacific is highly involved in working for the rights of Indigenous Australians; its Americas 586 587 division undertakes a variety of measures to help ethnic minorities and the Europe division supports talented young people from a migrant background. There are other examples that ICCs 588 589 would have different CSR strategies due to different culture of host countries. Balfour Beatty, for example, is a lead sponsor for the London Youth Games, which works with some of the most 590 591 disadvantaged young people in London, while in Philadelphia, they have been funding a mathematics programme for children of destitute families to help them keep pace with more 592 593 fortunate social groups in the race for high school and college places; in South Africa, they give financial and practical support to the Compass Care Centre in Edenvale which provides food and 594 shelter to poor, homeless, and unemployed mothers and their children. CSR, in a sense, has been 595 employed by ICCs as a 'soft power' when undertaking their international construction business. 596 597 ICCs adopt CSR strategies that are mostly desired by host countries in line with their cultural and institutional difference. 598

599

600 *Q5*: What are the possible prospects of CSR disclosures by ICCs?

Based on the above analyses of the trends of CSR disclosures, it can be reasonably expected that the number of companies disclosing their CSR performance using CSR/SD reports will increase in the future. ICCs from developed countries will continue to maintain a high level of CSR

disclosure. The average disclosure level of Asian and Australian ICCs shows a dramatic rise in 604 the past years to an extent that is similar to Europe's ICCs. In line with the trend that ICCs from 605 developing countries increasingly become an emerging force in built environment provision in 606 the international arena, they will also join in this CSR cause, either self-consciously or forcedly 607 by external pressure. This echoes with Porter and Kramer (2006) that CSR has emerged as "an 608 inescapable priority for business leaders in every country". ICCs view CSR reporting an effective 609 way of interacting with society and influencing external perceptions of their organizations. The 610 idea that all organizations should realize and discharge their social responsibility for sustainable 611 development of society, a concept demonstrated by ISO 26000, has spread around the world. 612

613

Theorists suggested that there is a 'social contract' between companies and society, bound by 614 which companies agree to perform various socially desired actions in return for societal approval 615 616 of their objectives and other rewards. Whilst the 'social contract' is gradually accepted as the rationale behind CSR disclosure, ICCs are still struggling with what should be entailed in it. This 617 618 is further exacerbated by the absence of a single and agreed definition of CSR. Increasingly, ICCs adopt the GRI as the guidelines of their CSR disclosure and this is expected to be the 619 620 prospect in the future. Although standardization of CSR disclosure is advocated, diversity of CSR disclosure contents will continue and should be allowed. The diversity lies in the cultural 621 622 and institutional distance between the home and host countries, a particular issue that ICCs must deal with when they undertake the international construction business by using CSR as a 'soft 623 power'. There are some items that have been frequently disclosed by ICCs but have not been 624 included in CRESS. It would be a reasonable move for the GRI to expand their guideline to 625 626 include the items in the future.

627

Third-party assurance is expected to continue in ICCs' CSR reporting to enhance the credibility 628 629 of the disclosed information. Nevertheless, verification of CSR information, which is largely non-financial in nature, will remain as a challenge in CSR reporting in the international 630 construction business. How to quantify and report CSR information consistently to allow society 631 to monitor it longitudinally is a challenge to not only the third-party auditors, but also the ICCs 632 which perceive CSR reporting as an effective way of communication. This was also echoed by 633 McKinsey (2011) that the challenge for CSR reporting is the measurement of tangible outcomes 634 and explaining the integration of external engagement. 635

637 Conclusions

This research explored the trends and prospects of CSR disclosure in the international 638 construction businesses. Analysis of the CSR/sustainability reports over a period of five years 639 (2008-2012) of the 50 top international construction companies (ICCs) ranked by Engineering 640 News-Record showed that there is increasing CSR disclosure. ICCs are enriching the contents of 641 their CSR disclosure reports, viewing this an effective way of interacting with society and 642 influencing external perceptions of their organizations. 'Emissions, effluents and waste', 643 'Community', and 'Occupational health and safety', are the three most frequently reported CSR 644 indicators. This largely confirmed legitimacy theory and stakeholder theory, which imply that 645 higher levels of CSR disclosure occur concurrently with increased focus on the potential 646 problems a company may cause, or increased threat of litigation or fines. Nevertheless, there 647 have been fewer disclosures in sensitive aspects such as anti-corruption, anti-competitive 648 behavior, and intra-corporate information transparency. These are the aspects that ICCs can 649 perform better and should have more disclosure. 650

651

This research further discovered that ICCs from the more economically developed countries 652 653 maintain a high level of CSR disclosure, while ICCs from the less economically developed countries are beginning to adopt this practice. Emerging from the both sides of the Atlantic, CSR 654 655 has travelled to the world with the internationalization of construction business; so have CSR disclosure practices. The research found that ICCs increasingly report their CSR strategies in 656 accordance with the GRI reporting guidelines, although there is no way to identify whether this 657 compliance is effective or not. Increasingly, ICCs are using third-party auditors in their CSR 658 659 reports to ensure the credibility of the disclosed information. While CSR disclosures by ICCs present a higher degree of uniformity, they also show nuanced and intriguing diversity in their 660 CSR reporting. ICCs from EU highlighted their compliance of code of conducts/ethics, and their 661 662 'Market presence' which means achieve CSR excellence throughout their global logistics and supply chain of construction business resources. East Asian ICCs are promoting work-life 663 balance while inherently they uphold a merit of 'hard working' in their value system. 664

665

By providing an international and paradoxical lens through which CSR issues can be investigated,
the research contributes to the relevant body of knowledge by helping confirm or refute various
theoretical perspectives on CSR disclosure in international construction. The insights offered by
this research will allow ICCs to consider the contents that a CSR disclosure report should include.

For scholars interested in CSR, the approaches used to measure the extent and levels of disclosure 670 are useful references. The limitations to this paper are: firstly, the analysis was based solely on 671 one type of communication – CSR reports published on websites. Some CSR reports could not 672 be found despite our best efforts. Secondly, the longitudinal study's five-year time frame may 673 not be long enough for the emergence of meaningful trends. Third, the CSR reporting practices 674 of only the top 50 large ICCs might not be representative of the international construction 675 business in general, because smaller international companies have not been included in the study. 676 677 678 Acknowledgement The work is supported by the Hong Kong Research Grants Council (RGC) General Research 679 Fund (GRF) (Project No.: HKU 749312B). 680 681 682 References Argenti, P.A. (2004). "Collaborating with Activists: How Starbucks works with NGOs". 683 684 California Management Review, 47(1), 91-116. Bae, J.H., and Salomon, R.M. (2010). "Institutional distance in international business 685 686 research". Advances in International Management: The Past, Present and Future of International Business and Management, Vol. 23, Devinney et al., eds., New York, NY: 687 688 Emerald, 2010. Brown, N., and Deegan, C. (1998). "The public disclosure of environmental performance 689

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