



UNIVERSITY OF LEEDS

This is a repository copy of *Stakeholder Engagement in Construction: Exploring Corporate Social Responsibility, Ethical Behaviors, and Practices*.

White Rose Research Online URL for this paper:

<https://eprints.whiterose.ac.uk/202755/>

Version: Accepted Version

---

**Article:**

Collinge, W. [orcid.org/0000-0003-3387-1649](https://orcid.org/0000-0003-3387-1649) (Cover date: March 2020) Stakeholder Engagement in Construction: Exploring Corporate Social Responsibility, Ethical Behaviors, and Practices. *Journal of Construction Engineering and Management*, 146 (3). 04020003. ISSN 0733-9364

[https://doi.org/10.1061/\(asce\)co.1943-7862.0001769](https://doi.org/10.1061/(asce)co.1943-7862.0001769)

---

This is an author produced version of an article published in the *Journal of Construction Engineering and Management*. Uploaded in accordance with the publisher's self-archiving policy.

**Reuse**

Items deposited in White Rose Research Online are protected by copyright, with all rights reserved unless indicated otherwise. They may be downloaded and/or printed for private study, or other acts as permitted by national copyright laws. The publisher or other rights holders may allow further reproduction and re-use of the full text version. This is indicated by the licence information on the White Rose Research Online record for the item.

**Takedown**

If you consider content in White Rose Research Online to be in breach of UK law, please notify us by emailing [eprints@whiterose.ac.uk](mailto:eprints@whiterose.ac.uk) including the URL of the record and the reason for the withdrawal request.



[eprints@whiterose.ac.uk](mailto:eprints@whiterose.ac.uk)  
<https://eprints.whiterose.ac.uk/>



# Stakeholder engagement in construction: exploring corporate social responsibility (CSR), ethical behaviours and practices

DOI:

[10.1061/\(ASCE\)CO.1943-7862.0001769](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001769)

## Document Version

Accepted author manuscript

[Link to publication record in Manchester Research Explorer](#)

## Citation for published version (APA):

Collinge, W. (2020). Stakeholder engagement in construction: exploring corporate social responsibility (CSR), ethical behaviours and practices. *Journal of Construction Engineering and Management*, 146(3).  
[https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0001769](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001769)

## Published in:

Journal of Construction Engineering and Management

## Citing this paper

Please note that where the full-text provided on Manchester Research Explorer is the Author Accepted Manuscript or Proof version this may differ from the final Published version. If citing, it is advised that you check and use the publisher's definitive version.

## General rights

Copyright and moral rights for the publications made accessible in the Research Explorer are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

## Takedown policy

If you believe that this document breaches copyright please refer to the University of Manchester's Takedown Procedures [<http://man.ac.uk/04Y6Bo>] or contact [uml.scholarlycommunications@manchester.ac.uk](mailto:uml.scholarlycommunications@manchester.ac.uk) providing relevant details, so we can investigate your claim.



# Journal of Construction Engineering and Management

## Stakeholder engagement in construction: exploring corporate social responsibility (CSR), ethical behaviours and practices

--Manuscript Draft--

<b>Manuscript Number:</b>	COENG-8119R3
<b>Full Title:</b>	Stakeholder engagement in construction: exploring corporate social responsibility (CSR), ethical behaviours and practices
<b>Manuscript Region of Origin:</b>	UNITED KINGDOM
<b>Article Type:</b>	Technical Paper
<b>Manuscript Classifications:</b>	1: Organizational Issues; 3: Project Planning and Design
<b>Funding Information:</b>	
<b>Abstract:</b>	Stakeholder engagement is an under theorized area of construction project management research. Often simplified as an act of corporate social responsibility, the complexity of the engagement concept, its` processes and consequences evades closer scrutiny and analysis. This paper provides an in-depth analysis of stakeholder engagement to reveal its` theoretical and practical complexity; two complimentary models of stakeholder engagement (Greenwood, 2007; Lane and Devin, 2018) being mobilized to empirical data from a hospital case study project. The result is a re-theorization of stakeholder engagement as a complex, entwining process of responsibility, organizational action and work package requirements where stakeholder engagement and agency (i.e. ethical treatment of stakeholders) are understood as separate variables that result in shifts between responsible, paternalistic, neoclassic and strategic behaviours. The contribution lies in a more sophisticated understanding of stakeholder engagement being attained: shifts between stakeholder engagement and agency defining relations between parties in CSR terms; the ethical aspirations of AEC organizations being impacted by daily project activities; the unique characteristics of stakeholder engagement in construction (e.g. binding of party interests; effect of subcontractor entry; collective blame/praise) being brought into focus. Resulting recommendations include periodic review of engagement activity to ensure the CSR strategic objectives of organisations are aligned to stakeholder engagement work.
<b>Corresponding Author:</b>	William Henry Collinge, Ph.D The University of Manchester Manchester, UNITED KINGDOM
<b>Corresponding Author E-Mail:</b>	william.collinge@manchester.ac.uk
<b>Order of Authors:</b>	William Henry Collinge, Ph.D
<b>Suggested Reviewers:</b>	
<b>Opposed Reviewers:</b>	
<b>Additional Information:</b>	
<b>Question</b>	<b>Response</b>
Authors are required to attain permission to re-use content, figures, tables, charts, maps, and photographs for which the authors do not hold copyright. Figures created by the authors but previously published under copyright elsewhere may require permission. For more information see <a href="http://ascelibrary.org/doi/abs/10.1061/9780784479018.ch03">http://ascelibrary.org/doi/abs/10.1061/9780784479018.ch03</a> . All permissions must be uploaded as a permission file in PDF	Yes

<p>format. Are there any required permissions that have not yet been secured? If yes, please explain in the comment box.</p>	
<p>If yes, please explain in the comment box. as follow-up to "Authors are required to attain permission to re-use content, figures, tables, charts, maps, and photographs for which the authors do not hold copyright. Figures created by the authors but previously published under copyright elsewhere may require permission. For more information see <a href="http://ascelibrary.org/doi/abs/10.1061/9780784479018.ch03">http://ascelibrary.org/doi/abs/10.1061/9780784479018.ch03</a>. All permissions must be uploaded as a permission file in PDF format. Are there any required permissions that have not yet been secured? If yes, please explain in the comment box.</p>	<p>I have communicated with the Publisher of the Greenwood model. They told me to contact them again if paper is accepted for publication. They then provide permission file.</p>
<p>ASCE does not review manuscripts that are being considered elsewhere to include other ASCE Journals and all conference proceedings. Is the article or parts of it being considered for any other publication? If your answer is yes, please explain in the comments box below.</p>	<p>No</p>
<p>Is this article or parts of it already published in print or online in any language? ASCE does not review content already published (see next questions for conference papers and posted theses/dissertations). If your answer is yes, please explain in the comments box below.</p>	<p>No</p>
<p>Has this paper or parts of it been published as a conference proceeding? A conference proceeding may be reviewed for publication only if it has been significantly revised and contains 50% new content. Any content overlap should be reworded and/or properly referenced. If your answer is yes, please explain in the comments box below and be prepared to provide the conference paper.</p>	<p>No</p>
<p>ASCE allows submissions of papers that are based on theses and dissertations so long as the paper has been modified to fit the journal page limits, format, and</p>	<p>No</p>

<p>tailored for the audience. ASCE will consider such papers even if the thesis or dissertation has been posted online provided that the degree-granting institution requires that the thesis or dissertation be posted.</p> <p>Is this paper a derivative of a thesis or dissertation posted or about to be posted on the Internet? If yes, please provide the URL or DOI permalink in the comment box below.</p>	
<p>Each submission to ASCE must stand on its own and represent significant new information, which may include disproving the work of others. While it is acceptable to build upon one's own work or replicate other's work, it is not appropriate to fragment the research to maximize the number of manuscripts or to submit papers that represent very small incremental changes. ASCE may use tools such as CrossCheck, Duplicate Submission Checks, and Google Scholar to verify that submissions are novel. Does the manuscript constitute incremental work (i.e. restating raw data, models, or conclusions from a previously published study)?</p>	No
<p>Authors are expected to present their papers within the page limitations described in <a href="http://dx.doi.org/10.1061/9780784479018" target="_blank">Publishing in ASCE Journals: A Guide for Authors</a>. Technical papers and Case Studies must not exceed 30 double-spaced manuscript pages, including all figures and tables. Technical notes must not exceed 7 double-spaced manuscript pages. Papers that exceed the limits must be justified. Grossly over-length papers may be returned without review. Does this paper exceed the ASCE length limitations? If yes, please provide justification in the comments box below.</p>	No
<p>All authors listed on the manuscript must have contributed to the study and must approve the current version of the manuscript. Are there any authors on the paper that do not meet these criteria? If the answer is yes, please explain in the comments.</p>	No

<p>Was this paper previously declined or withdrawn from this or another ASCE journal? If so, please provide the previous manuscript number and explain what you have changed in this current version in the comments box below. You may upload a separate response to reviewers if your comments are extensive.</p>	<p>No</p>
<p>Companion manuscripts are discouraged as all papers published must be able to stand on their own. Justification must be provided to the editor if an author feels as though the work must be presented in two parts and published simultaneously. There is no guarantee that companions will be reviewed by the same reviewers, which complicates the review process, increases the risk for rejection and potentially lengthens the review time. If this is a companion paper, please indicate the part number and provide the title, authors and manuscript number (if available) for the companion papers along with your detailed justification for the editor in the comments box below. If there is no justification provided, or if there is insufficient justification, the papers will be returned without review.</p>	
<p>If this manuscript is intended as part of a Special Issue or Collection, please provide the Special Collection title and name of the guest editor in the comments box below.</p>	
<p>Papers published in ASCE Journals must make a contribution to the core body of knowledge and to the advancement of the field. Authors must consider how their new knowledge and/or innovations add value to the state of the art and/or state of the practice. Please outline the specific contributions of this research in the comments box.</p> <p>To read more about how the JCEM considers each paper's contributions please see the following <a href="#">Editor's Note</a>.</p>	<p>The paper advances understanding of stakeholder engagement practices and processes both theoretically and conceptually; the insights being of practical use to the construction project management community. The findings are based on robust evidence combined with validated models of stakeholder engagement.</p>
<p>JCEM strives to continually provide readers with the most relevant data and research. Authors are asked to consider the impact of their research on the global construction community. Papers with a</p>	<p>No</p>

<p>single-region focus should be submitted as a Case Study. Descriptions of a Case Study can be found in <a href="http://dx.doi.org/10.1061/9780784479018" target="_blank">Publishing in ASCE Journals: A Guide for Authors</a>. Does your paper contain research that is focused on a single region?</p>	
<p>The board of JCEM <a href="#">encourages authors to make data used in the current study available to other researchers</a> in order to advance the science and profession. A Data Availability statement is required to appear at the end of the published paper. Please include this information in a section titled "Data Availability Statement" right before the acknowledgements. Please indicate below whether your data is available and how a reader may access the data. Note that selected statements will appear verbatim in your paper.</p>	<p>Data generated or analyzed during the study are available from the corresponding author by request.</p>
<p>The flat fee for including color figures in print is \$800, regardless of the number of color figures. There is no fee for online only color figures. If you decide to not print figures in color, please ensure that the color figures will also make sense when printed in black-and-white, and remove any reference to color in the text. Only one file is accepted for each figure. Do you intend to pay to include color figures in print? If yes, please indicate which figures in the comments box.</p>	<p>No</p>
<p>If there is anything else you wish to communicate to the editor of the journal, please do so in this box.</p>	
<p>When submitting a new and revised manuscript, authors are asked to include a <a href="#">Data Availability Statement</a> containing one or more of the following statements, with specific items listed as appropriate. Please select any of the statements below that apply to your manuscript. Also, please include the selected statements in a separate "Data Availability" section in your manuscript, directly before the acknowledgements or references.</p>	<p>d. Some or all data, models, or code generated or used during the study are proprietary or confidential in nature and may only be provided with restrictions (e.g. anonymized data) List items and restrictions.</p>

1 **Stakeholder engagement in construction: exploring corporate social responsibility**  
2 **(CSR), ethical behaviours and practices**

3 William Collinge

4 ORCHID: 0000-0003-3387-1649

5 Mechanical Aerospace & Civil Engineering

6 University of Manchester

7 E8 Pariser Building, 76 Sackville Street

8 Manchester M1 7JR

9 United Kingdom

10 [william.collinge@manchester.ac.uk](mailto:william.collinge@manchester.ac.uk)

11 **Abstract**

12 Stakeholder engagement is an under theorized area of construction project management  
13 research. Often simplified as an act of corporate social responsibility, the complexity of the  
14 engagement concept, its` processes and consequences evades closer scrutiny and analysis.  
15 This paper provides an in-depth analysis of stakeholder engagement to reveal its` theoretical  
16 and practical complexity; two complimentary models of stakeholder engagement  
17 (Greenwood, 2007; Lane and Devin, 2018) being mobilized to empirical data from a hospital  
18 case study project. The result is a re-theorization of stakeholder engagement as a complex,  
19 entwining process of responsibility, organizational action and work package requirements  
20 where stakeholder engagement and agency (i.e. ethical treatment of stakeholders) are  
21 understood as separate variables that result in shifts between responsible, paternalistic,  
22 neoclassic and strategic behaviours. The contribution lies in a more sophisticated  
23 understanding of stakeholder engagement being attained: shifts between stakeholder  
24 engagement and agency defining relations between parties in CSR terms; the ethical  
25 aspirations of AEC organizations being impacted by daily project activities; the unique



26 characteristics of stakeholder engagement in construction (e.g. binding of party interests;  
27 effect of subcontractor entry; collective blame/praise) being brought into focus. Resulting  
28 recommendations include periodic review of engagement activity to ensure the CSR strategic  
29 objectives of organisations are aligned to stakeholder engagement work.

30 Keywords: stakeholder management; stakeholder engagement; stakeholder theory; corporate  
31 social responsibility; CSR.

## 32 **Introduction**

33 Stakeholder engagement is traditionally considered a key stage of stakeholder management  
34 work (together with stakeholder identification, analysis, planning: action implementation:  
35 APM, 2012). However, whilst stakeholder management continues to be recognised as  
36 important for project management success (c.f. APM, 2012; Turner, 2009), stakeholder  
37 engagement often evades closer scrutiny as an activity, being under theorized and often  
38 misunderstood in the construction project management literature. Moreover, the relation  
39 between stakeholder engagement, corporate social responsibility (CSR) and ethical  
40 behaviours of construction companies is seldom recognized as significant. Indeed,  
41 stakeholder engagement is often simply considered to be an act of corporate social  
42 responsibility (Lane and Devin, 2018), when in fact it may be morally neutral practice  
43 (Greenwood, 2007). The vagueness surrounding stakeholder engagement and its` relation  
44 with corporate social responsibility in construction merits closer analysis so that a fuller  
45 comprehension of its` effect and consequence may be established.

46 This paper aims to clarify stakeholder engagement in a construction context by revealing the  
47 multifaceted nature of CSR in action. It explores how stakeholder engagement is a complex  
48 entwining of responsibility, actions of multiple parties (e.g. lead contractor; subcontractor)  
49 and work package requirements, so that engagement is theoretically lifted for a construction

50 project setting. Through application of the complimentary frameworks of Greenwood (2007)  
51 and Lane and Devin (2008), the connections between CSR, ethics and stakeholder  
52 engagement comes into clearer focus. The paper serves a dual purpose of informing  
53 practitioners of the complexity of stakeholder engagement (to better inform the  
54 implementation practices) whilst illuminating the connection with CSR and responsible  
55 behaviours. The paper therefore follows the contention of scholars who argue that focused  
56 examination of practices is necessary to advance scholarship (c.f. Trevino & Weaver, 1999;  
57 Freeman, 1999; Friedman and Miles, 2002); the proposal of any practical recommendations  
58 from research having sound theoretical and conceptual foundations (e.g. Yang et al., 2011a;  
59 Smyth, 2008). The theoretically informed model is also informative and useful for the  
60 project management community as a basis for further research; stakeholder engagement  
61 being better understood and potentially managed in practice as a result.

62 The paper begins by reviewing stakeholder management scholarship in construction.  
63 Stakeholder engagement is then examined more closely as a theoretical construct with  
64 reference to the work of Greenwood (2007) and Lane and Devin (2018). A research methods  
65 section details the empirical work undertaken and how the data collected was related to the  
66 model and the concepts of stakeholder engagement. A series of vignettes then clarify how  
67 stakeholders are engaged during construction project work; the variability and shifting  
68 movements between levels of engagement occurring and stakeholder agency (i.e. the  
69 responsible treatment of stakeholders) being mapped against concepts of CSR behaviours  
70 (i.e. responsible; paternalistic; neoclassical; strategic). A following discussion examines the  
71 insights further, raising understanding of stakeholder engagement as an evolving process  
72 between project work packages, organisations (e.g. lead contractor; subcontractors) and  
73 actions of parties on the ground; the nature and complexity of stakeholder engagement in

74 construction being clarified as a result. A closing summary draws the insights of the paper  
75 together.

## 76 **Stakeholder management in literature**

77 There is now a large corpus of work addressing stakeholder management in construction (see  
78 Chinyio and Olomolaiye (2010); Atkin and Skitmore (2008); Chinyio & Akintoye (2008);  
79 Fraser & Zhu (2008) and Olander & Landin (2008) for broad overviews and primary  
80 examples of research work). In fact, as Yang et al. (2011a) note, the construction  
81 management field is amongst the most active in researching and examining stakeholder  
82 management. However, despite the large body of literature, there remains potential for  
83 deeper understandings of primary stakeholder management practices (i.e. stakeholder  
84 identification, engagement, communication). Indeed, whilst stakeholder engagement is  
85 recognised to be a critical aspect of stakeholder management, there has been little  
86 investigation of how stakeholder engagement is implemented, nor its` theoretical or  
87 conceptual underpinning. It can also be argued that whilst projects are unique in terms of  
88 actors, objectives and requirements (Turner, 2009), there remain opportunities for cross-  
89 fertilization of ideas into project management from other fields of research (e.g. strategic  
90 management; organizational studies). In this respect, the paper follows the lead of scholars  
91 from outside project management in arguing that stakeholder engagement can best be  
92 understood as a process (c.f. Greenwood, 2007; Lane and Devin, 2018; Johnston, 2010) with  
93 multi-faceted implications for the corporate social responsibility (CSR) activities of  
94 companies (Bowen et al. 2010) involved. Indeed, the paper demonstrates how scholarship  
95 and learning can be enhanced by exploring models and concepts from outside the project  
96 management boundary.

## 97 **Stakeholder Engagement**

98 Stakeholder engagement is considered a key aspect of stakeholder management work (APM,  
99 2012, p.116). It may be understood in a variety of ways and from different perspectives and  
100 research work has emanated from both the construction and broader business management  
101 domains. In reviewing the literature, it is revealed that theoretical understanding of  
102 stakeholder engagement in construction remains relatively immature, and there remains much  
103 potential for advances in scholarship.

104 Many construction scholars look toward the broader project management and business  
105 studies literature for inspiration. For example, Missonier and Loufrani-Fedida (2014)  
106 propose a stakeholder relational ontology, anchored in Actor-Network Theory (ANT), as an  
107 improved way for understanding stakeholder engagements than more traditional relational  
108 perspectives rooted in Social Network Theory. From a longitudinal case study of an  
109 Information System project, the authors argue that ANT illuminates how dynamic  
110 relationships emerge over time on a project; the idea that relationships are dynamic and  
111 change over time over the course of a project can be applied to stakeholder management  
112 work in construction.

113 From a strategic management perspective, stakeholder engagement may be viewed as a  
114 mechanism for reducing conflict, encouraging innovation and facilitating spin-off  
115 partnerships (Yu and Leung, 2018). From an ethical perspective, it can be understood as a  
116 way for enhancing inclusive decision making and promoting equity (Yang et al. 2011a).  
117 Mathur et al. (2008) call for fresh approaches for understanding stakeholder engagement in  
118 construction so that concepts such as these can coalesce around sustainability in the built  
119 environment. The concepts identified by Mathur et al. (2008) align well with the work of  
120 Greenwood (2007) in her model of stakeholder engagement (discussed below), highlighting  
121 the multifaceted nature of the engagement concept.

122 In a recent practice focused paper, Yu and Leung (2018) explore how public engagement  
123 (PE) has emerged as a prerequisite for collecting stakeholders' opinions to involve them in  
124 the decision making of construction development projects. Their study shows how different  
125 forms of power and interest influence final engagement outcomes (either directly or  
126 indirectly), illustrating the potential to advance stakeholder satisfaction for construction  
127 development projects. Also addressing practical issues, Yang et al. (2011b) formulate a  
128 typology of approaches for practitioner stakeholder engagement in construction from  
129 interviews and a questionnaire survey conducted in Hong Kong. The implication is that  
130 appropriate approach selection is an art requiring practitioners' judgments (each approach  
131 having its` strengths and limitations). Such work reminds us that stakeholder engagement is  
132 a practical activity, closely bound to forms of communication. This aspect of stakeholder  
133 engagement has been noted by scholars; Collinge and Harty (2014), for example, noting how  
134 in briefing work, stakeholders engage with design artefacts to interpret issues using personal  
135 cognitive frames of reference. Leung and Liang (2013) note how the unbalanced distribution  
136 of power interests on a project inevitably causes tensions between multiple stakeholders,  
137 often connected with various levels of communicative engagement on a project. The authors  
138 argue to include more representatives from different stakeholder groups in the decision-  
139 making process to enable active engagement. Understanding stakeholder relationships is  
140 potentially fruitful in construction as projects are characterised by multiple parties (e.g.  
141 contractors; subcontractors; consultants) coming together under various "terms of  
142 cooperation" (e.g. contractual; non-contractual) in different sets of circumstance (e.g. pre-  
143 construction design work; building phase work packages). However, it is a valid criticism  
144 that too many accounts of stakeholder management focus on attributes of organisations or  
145 stakeholders (i.e. stakeholder power, interest, influence) rather than the *attributes of the*  
146 *relationship* between organisations and stakeholders. This paper contends that understanding

147 the relationship between parties is important in appreciating how responsible behaviour and  
148 stakeholder management is realised. Moreover, construction stakeholder management  
149 scholarship generally takes more of a macro than a micro view: the individual work packages  
150 of project management activity seldom providing a focus of attention despite their  
151 significance in project management work.

152 The relationship between morality, strategic management and stakeholder engagement was  
153 explored by Noland and Phillips (2010), from two distinct scholarly perspectives: the  
154 Habermasian and Ethical Strategist perspectives. The authors contend that for Habermasians,  
155 moral engagement is marked by communications that ensure power differences and strategic  
156 motivations between parties are subordinate to finding the optimal morally acceptable  
157 solution. In contrast, Ethical Strategists contend that distinctions between strategy and  
158 morality is unnecessary as good strategy should encompass moral concerns. Ultimately,  
159 Noland and Phillips argue for the Ethical Strategist position, owing to its` confluence of  
160 conceptual and practical concerns. The confluence between the conceptual and practical  
161 underlies many academic explorations into stakeholder engagement. For example, Kaler  
162 (2002) suggests that moral duties of an organisation towards stakeholders can be delineated  
163 by defining stakeholders as either “claimant” or “influencer” in their orientation: claimant  
164 stakeholders invoking a moral duty on an organisation that is stronger than any claims based  
165 on power or urgency (Mitchell et al., 1997). Influencer stakeholders, in contrast, have  
166 stronger power/urgency claims than moral legitimacy for an organisation. Phillips` (1999)  
167 invokes the principle of fairness to determine how best to respond to such claims (p.321); a  
168 claim or appeal from a stakeholder potentially invoking a moral duty to respond, with  
169 obligations being in proportion to the benefits accrued.

170 These contributions indicate how closer understanding of the engagement concept requires  
171 examination of engagement processes and outcomes of engagements. Such focused accounts

172 have been generally lacking in the construction project management domain, and as a result,  
173 this paper takes inspiration from work focusing upon engagement processes and the outcomes  
174 of engagement. In their work, Lane and Devin (2018) reference the work of Johnston (2010),  
175 who applied a process model approach for understanding stakeholder engagement, resulting  
176 in a typology of practice. The three baseline elements of Johnston`s (2010) model are  
177 antecedents, engagement relationship strategies and consequences (as discussed below). In  
178 her work Greenwood (2007) argues that engagement is not simply “corporate responsibility  
179 in action”, but is actually morally neutral, in that it does not follow that responsible treatment  
180 of stakeholders must follow engagement activity. Therefore, stakeholder engagement may be  
181 used in a moral or immoral way, but it is not necessarily either of these:

182 “It may be a morally positive practice when it enables co-operation in the context of a  
183 mutually benefitting relationship. However, it may also be morally negative (immoral)  
184 practice used as a deceptive control mechanism when masquerading as corporate  
185 responsibility.” (p.320)

186 The work of both Lane and Devin (2018) and Greenwood (2007) are now examined in more  
187 detail as providing a theoretical and conceptual framework for understanding stakeholder  
188 engagement as a process that defines CSR relations between different stakeholders on a  
189 project.

### 190 *Stakeholder Engagement and Social Responsibility*

191 The model of Greenwood (2007) (figure 1) brings into focus how stakeholder engagement  
192 may be considered a separate variable from the responsible treatment of stakeholders  
193 (labelled as “agency” on figure 1). Greenwood explores how there is a relation between  
194 levels of engagement and the responsible treatment of stakeholders, noting how stakeholder

195 engagement itself is a process (or set of processes) of communication, dialogue and  
196 exchange,

197 “High engagement is where these activities are numerous and/or these activities are of high  
198 quality. Low engagement is the opposite of high engagement. No engagement is possible,  
199 but highly improbable.” (p.321)

200 The construct of stakeholder agency is used as a proxy for the responsible treatment of  
201 stakeholders, which may also be considered a variable that can fluctuate. The four quadrants  
202 of the model (responsibility, paternalism, neoclassic and strategic) are defined in Table 1.

203 The four quadrants are further sub-divided by a hypothetical “optimal” line, Greenwood  
204 contending that an optimal level exists for the constructs of engagement and moral treatment  
205 of stakeholders (following Wicks et al. 1999). Definitions of the segments (labelled A-H) are  
206 given in Table 2. The most widely known definition of positive stakeholder management  
207 practice, corporate social responsibility (CSR), occupies segment A of the model. The model  
208 indicates how stakeholder engagement may be understood in a variety of ways, such as a  
209 mechanism for consent; a mechanism for control; a mechanism for cooperation; a mechanism  
210 for enhancing trust, etc. The actions of an organisation towards stakeholders can  
211 theoretically be charted as variables on the model to clarify how actions relate to engagement  
212 and responsible treatment; such classifications of actions could essentially assist an  
213 organisation reflect on, improve and refine its` stakeholder management actions. Although  
214 Greenwood does not mobilize or test the framework with any empirical data, she notes the  
215 model could be applied to different contexts to explore relations between parties, stating,  
216 “A model that proposes a probable relationship (between engagement and responsible  
217 treatment of stakeholders) has been provided. This model allows for the possibility of



218 corporate irresponsibility and offers a stepping stone for further theoretical and empirical  
219 exploration of this multifaceted relationship.” (p.325)

220 This paper will apply the model to a construction domain, and in so doing, shows how  
221 engagement can perform several different functions; for example as a mechanism for proving  
222 organisational responsibility; as a way to manage risks (Deegan, 2002) or as a form of  
223 organisational control (Owen et al. 2000).

224 In their paper, Lane and Devin (2018) discuss how engagement itself is made up of several  
225 activities; engagement being a process over time that can be defined into distinct stages of  
226 activity: identification/selection; engaging and securing interest; implementing engagement  
227 strategies. Lane and Devin (2018) offer a process model of the operationalization of  
228 stakeholder engagement, with distinct phases of engagement activity being broken down as  
229 separate areas of concern for an organisation pursuing its` own CSR agenda. Although their  
230 study is based on the CSR reports of nine different Australian companies outside of  
231 construction (banking; energy; consumer goods), Lane and Devin offer insights into  
232 stakeholder engagement practices that are of potential interest to the construction industry, as  
233 detailed below:

- 234 • Stakeholder engagement can be broken down into a series of tasks
- 235 • The sequencing and linkages between tasks are significant for stakeholder  
236 engagement
- 237 • Understanding stakeholder engagement as a process can assist in identification of  
238 “checks” and “balance points” for periodic review of events
- 239 • Reviewing engagement processes can provide a lens on the conduct of stakeholder  
240 engagement as part of an organisation`s CSR efforts

241 Whilst Lane and Devin`s (2018) work examines the operationalisation of stakeholder  
242 engagement, Greenwood`s theoretical model (2007) relates more to the consequences of that  
243 engagement. The paper takes forward insights from Greenwood (2002) and Lane and Devin  
244 (2018), contending they are relevant for a construction project context. Of particular note are  
245 the following points:

- 246 • Stakeholder engagement is a “process” (not a single one-off activity) (Greenwood,  
247 2007)
- 248 • Stakeholder engagement consists of a series of “steps” (i.e. the antecedent context; the  
249 process of engagement; consequences of engagement) (Lane and Devin, 2018)
- 250 • A processual view of stakeholder engagement provides a framework for “checks and  
251 balance points” (Lane and Devin, 2018, p.278), increasing the chance for problem  
252 identification/rectification

253 The paper now details the research method and analytical approach employed.

## 254 **Research Method**

255 A study of hospital construction project stakeholder management in the UK set out to  
256 understand stakeholder engagement practices. Hospital projects are fertile contexts for  
257 stakeholder management research due to the diversity of stakeholder interests engaged on  
258 both client (e.g. clinicians; patients; visitors; community groups) and practitioner (e.g.  
259 engineers; architects; designers; medical planners) (Prasad, 2008) sides.

260 Empirical data was collected from a case study project: three sets of interviews with hospital  
261 managerial and AEC (architecture, engineering, construction) company staff being collected,  
262 transcribed and analysed in a thematic manner. To provide as rich a picture as possible  
263 regarding the different incidents of stakeholder engagement occurring, interviewees were  
264 interviewed on 3 separate occasions, each successive interview focusing in more detail on

265 incidents of stakeholder engagement. Several vignettes of stakeholder engagement practice  
266 were identified from the first round of interviews, and these were then followed up in a  
267 second round of interviews.

268 Initial interview questions queried the strategies and methods of stakeholder engagement  
269 employed, probing how stakeholders were represented and managed. The second round of  
270 interviews drilled down into the vignettes in much greater detail to explore the actions and  
271 consequences of stakeholder engagement in much more detail. Brief follow on telephone  
272 interviews resolved any remaining questions the researcher had regarding stakeholder  
273 engagement work practices. The interview transcripts were uploaded to a qualitative  
274 software package and then coded against the concepts of stakeholder engagement listed in  
275 Tables 1 and 2. The empirical insights indicate how hospitals employ their own stakeholder  
276 strategies through the course of a construction project (e.g. internal meetings; group  
277 discussions); the methods by which stakeholders are identified, defined and engaged  
278 reflecting particular views of the stakeholder conception by organisations (Greenwood, 2007,  
279 p.320). For example, the Patient Advisory Liaison Services (PALS) is often identified as a  
280 conduit of patient stakeholder opinion about impending or current construction work in NHS  
281 (National Health Service) hospitals. However, viewed objectively, there is no guarantee  
282 that the PALS service will always represent or convey stakeholder group concerns fairly and  
283 accurately.

284 Separate project work packages provided focal points of analysis, whilst discussion of  
285 stakeholder engagement work by practitioners was retrospective in that interviewees were  
286 reflecting back on past events. Whilst the researcher chose certain vignettes of practice that  
287 were particularly rich in information and detail, use of Greenwood's model required certain  
288 methodological decisions to be made regarding data analysis.

289 *Data Analysis*

290 The data itself was the opinion and recollections of interviewees regarding stakeholder  
291 engagement work in action on project work tasks. To assess the data and facilitate its`  
292 reference against the framework, excerpts of data were coded against the definitional  
293 concepts in Table 1 and 2. Stakeholder engagement practices could then be related to the  
294 framework concepts based upon the frequency/intensity of actions indicated and strength of  
295 opinion regarding the agency factors (i.e. responsible treatment of stakeholder) conveyed by  
296 interviewees. The researcher related data to the framework himself, personal judgement  
297 coming into play at this stage of the analysis. Frequently, unequivocal opinions could be  
298 easily matched to the concepts, such as,

299 “the subcontractors didn` t speak to the client first, so we all got the blame for the mess  
300 created” (Irresponsible behaviour)

301 At other times, opinions were more subtle, requiring the researcher to interpret data carefully  
302 against the framework concepts. Key to this methodological approach was identification of  
303 stakeholder engagement actions (or lack of actions) and responsible behaviour being  
304 displayed in order to relate incidents to the framework of Greenwood (figure 1). Different  
305 project work packages and different phases of project work provided key entry points in order  
306 to examine and analyse what was going on in stakeholder engagement terms; the researcher  
307 placing each vignette on to the model at different stages of the construction project cycle  
308 (figures 2-5). Four distinct versions of the model are presented for different phases of work  
309 (figure 2 to 5: pre-construction; commencement of work; subcontractor engagement;  
310 completion); these phases roughly corresponding to stages 3/4, 5 and 6 of the RIBA PoW  
311 (2013). These successive models clarify the shifts and changes in stakeholder engagement  
312 work through the course of a project as different work packages evolve and develop. The

313 model highlights the attributes of the relationship between parties in CSR and ethical terms  
314 that are triggered by stakeholder engagement activities. Whilst this approach is open to  
315 critique and criticism, it does demonstrate how the model can start to be used to conduct  
316 useful analysis of stakeholder engagement work: the model retaining its` flexibility for  
317 further researcher experimentation and refinement.

### 318 **Vignette 1: Construction of a new fire escape**

319 Construction of a new fire escape for the hospital required openings to be made through stone  
320 and brickwork on seven separate floors. Multiple stakeholder groups would be affected by  
321 this task (e.g. patients, clinical staff, general public); the implications being considerable as  
322 construction was to occur only metres away from patients, with a high impact in terms of  
323 noise, dust and disruption. As the Client Relations Manager related,  
324 “These buildings were still occupied, so some people had to be moved into other ones so  
325 building could occur. We couldn` t just knock it down and build it.”

326 Engagement work on this task began with brief pre-construction discussions between  
327 designers and the hospital client, accelerating quickly as the responsibility of the lead  
328 contractor of the construction team. The contractor communicated closely with staff,  
329 agreeing a ten week programme of works for construction activity to occur (i.e. during meal  
330 times; during doctors rounds). The resulting sequencing programme was integrated into the  
331 work programme for each hospital area: understanding the effect of construction activity  
332 being an important driving principle directing contractor activity. Visits were also made to  
333 staff to reinforce the impact of the impending work and to agree steps to minimize disruption.  
334 Numerous NHS interviewees commented positively on the pre-construction engagement  
335 work done, and as a result, in relation to the stakeholder engagement model for pre-  
336 construction phase work (figure 2), the vignette may be located in quadrant A at an optimal

337 level of engagement and responsible treatment of stakeholder interests, as an example of  
338 responsible contractor behaviour.

339 With commencement of work, the lead contractor initiated the work as agreed in pre-  
340 construction discussions. Responsible treatment now translated into real actions on site. For  
341 example, existing fire escapes were used to minimize movement through wards; work was  
342 executed externally whenever possible and workers announced their presence when accessing  
343 clinical areas. Further measures included the wearing of overshoes to stop dust transmission,  
344 partitions in wards and regular monitoring of work areas through daily visits. Disturbance of  
345 hospital staff was minimal, which was appreciated. Figure 3 indicates how the vignette now  
346 shifts to the “limited paternalism” quadrant. There is now little stakeholder engagement, but  
347 the contractor is still acting in the interests of the hospital with limited consultation. Hospital  
348 stakeholders are still being treated responsibly. With the introduction of subcontractors, the  
349 vignette does not shift in position on the stakeholder engagement model (figure 4): contractor  
350 and subcontractors work closely together on the construction of the new fire escape and there  
351 is no significant deviation in actions resulting in changes to the stakeholder engagement  
352 model.

353 Following completion, several visits were made to ensure hospital staff were satisfied with  
354 the work done: close liaison with internal stakeholder parties (e.g. nurses, cleaners, medics),  
355 the long lead-in time, careful sequencing of events and monitoring of work contributing  
356 overall to an effective stakeholder management strategy. The increase in engagement is  
357 reflected in figure 5, as the vignette returns to quadrant A/B: an ideal and optimal level of  
358 engagement being achieved. Engagement was judged as not excessive (anti-capitalism:  
359 sector B), but at the right level so that legitimate stakeholders were consulted prior to the  
360 commencement of construction work. Engagement was effective because the contractor  
361 created a specific role for stakeholder work (the Client Relations Manager) and also because

362 the hospital was proactive in assisting the contractor with stakeholder management work.  
363 The engagement strategy resulted in a positive perception of the contractor and subcontractor  
364 teams; the actions equating to those of a “corporate responsible” organisation. The vignette  
365 indicates how stakeholder engagement on this task can be understood as an ongoing,  
366 unfolding process; the nature of stakeholder engagement being traced through time as work  
367 progressed. It also allows us to begin to mobilize Greenwoods` model and observe how its`  
368 associated concepts for a construction project domain manifest themselves.

### 369 **Vignette 2: Waiting room / Renal unit ramp**

370 To create a new waiting room for an existing Renal Unit, a new mezzanine floor had to be  
371 constructed. Close liaison with the Unit manager and staff was essential from the beginning  
372 of this task as work needed to be executed during the Unit`s operational hours. A hospital  
373 manager expressed her concerns,  
374 “The prospect of major structural change to the Unit caused us great concern regarding noise,  
375 dust and workers in a clinical area. But the contractors were unfailingly courteous, flexible  
376 and kept us well informed when works were happening. They communicated with us and  
377 answered our concerns to the best of their abilities. The work had a minimal impact on our  
378 work, which was remarkable.”

379 Such positive work began with pre-construction discussions: a long lead in period and  
380 sequence of works being explained to hospital staff by the contractor, with anticipated noise  
381 levels and disruptive activities being explained. Concerns of hospital staff were discussed  
382 openly (such as dialysis treatment times); the two work projects to be executed  
383 simultaneously (the mezzanine floor construction and external ramp for wheelchair access to  
384 the Unit). Therefore, the vignette may be initially located at quadrant A/B (figure 2): an  
385 optimal level of engagement and responsible treatment being achieved.

386 With the commencement of construction work, the lead contractor took immediate actions to  
387 address stakeholder needs. For example, to mitigate dust dispersal, windows to one side of  
388 the unit were sealed shut and to protect patient privacy, mirror film was placed on the  
389 windows so that contractors could not see patients, and in the event of hot and uncomfortable  
390 weather, fans were supplied to patients and staff as windows would be closed. The  
391 interviewed Client Relations Manager explained how stakeholder management work very  
392 much depends upon the construction work task at hand,

393 “Sometimes you will be busier than others and it is dependent on what work is happening. If  
394 the work has a lot of impact on the hospital, there will be more meetings. Meetings can be  
395 fortnightly or weekly if something critical is happening...If only senior staff in the hospital  
396 know about an issue it is then up to them to disseminate information down to their team. But  
397 we try to cover all communication channels.”

398 A variety of client relations tools were used during this construction task (e.g. notices; hand-  
399 outs; comments cards), contributing to effective stakeholder management work. Here we see  
400 stakeholder engagement remaining responsible and balanced, the contractor needing to  
401 remain in close communication with the client due to proximity to patients and services  
402 (figure 3). A number of different subcontractor teams then entered the hospital work zones,  
403 and whilst some spoke directly with staff and visitors, others preferred not to. For the  
404 majority of hospital staff interviewed, no distinctions were made between the various  
405 construction teams: they were all viewed as one and the same entity. In terms of stakeholder  
406 engagement in construction, this is significant as such a view may translate into both shared  
407 praise and shared blame for multiple parties working on the same task (as will be observed  
408 later). As work commenced on the waiting room/renal ramp, there was more praise than  
409 blame to be shared amongst the contractor teams, although occasionally subcontractors had to  
410 be cautioned not to plug in and activate fans without staff permission.



411 Therefore, for the subcontractor engagement phase (figure 4), the vignette shifts to a position  
412 between segment C (limited paternalism) and segment D (strong paternalism) as stakeholders  
413 were generally treated responsibly, but engagement decreased and was occasionally sub-  
414 optimal (i.e. subcontractors not engaging with hospital staff to verify actions). The actions of  
415 the construction team may be described as fluctuating paternalistic, in that engagement was  
416 occasionally removed from responsibility. For example, the distribution of fans to patients  
417 (done without prior engagement with hospital staff), could be construed as limited  
418 paternalism (C); whilst plugging and switching on the fans without stakeholder permission  
419 would be adjudged as strong paternalism (D). This vignette highlights the complexity of the  
420 engagement construct when multiple parties are engaged on the same construction project  
421 work task, and how the client may not make distinctions between the various organisational  
422 entities employed. Moreover, it illustrates how actions on the ground can be interpreted as  
423 responsible or irresponsible behaviour. As construction work concluded, engagement  
424 increased again as communications resumed with the hospital and the work was signed off as  
425 satisfactory (figure 5).

### 426 **Vignette 3: Electrical wiring in corridor**

427 Construction work often results in supplementary activities for completion, such as services  
428 upgrades, movements of equipment, refurbishments and re-signage. The next two vignettes  
429 each relate to such work. To install some electrical wiring in a section of the hospital  
430 following machinery upgrade work, a subcontractor team took the initiative and opted to  
431 execute the work at night to minimize disruption to hospital staff and visitors. As a result, the  
432 subcontractors decided not to engage or consult stakeholders about this task as it appeared  
433 simple and straightforward to them. The subcontractors accessed the corridor lighting spaces  
434 using step-ladders, and having completed their task, left the hospital by early morning.  
435 Hospital staff returning to work in the morning found the corridors dirty with dust and

436 material offcuts, necessitating a deep clean of the corridors, with consequent knock-on effects  
437 to personnel and service movements. A complaint to the lead contractor resulted, which was  
438 passed onto the subcontractor team. The subcontractors subsequently apologised to both lead  
439 contractor and hospital, but the incident soured relations between all parties for a short  
440 period.

441 This vignette initially appears on figure 4 (subcontractor engagement) in segment F as an  
442 example of low engagement/low stakeholder agency as a task completed in the interests of  
443 the subcontractor team without consultation with the hospital client stakeholders (or lead  
444 contractor). The subcontractors actually misjudged the impact of their work on the hospital,  
445 although they believed themselves to be acting responsibly in the interests of the hospital.  
446 The vignette highlights several issues of note. Firstly, the use of multiple subcontractor  
447 teams means direct engagement with the client is not always possible (or considered  
448 necessary) by those doing the work. As a result, subcontractors may make decisions and take  
449 actions without wider consultation. Secondly, multiple stakeholders can be negatively  
450 affected by the actions of one team of subcontractors; the lead contractor (with managerial  
451 responsibility for subcontractors) shouldering some blame for the incident (contractual  
452 arrangements binding multiple organisations together in stakeholder management terms). At  
453 task completion (figure 5) engagement had necessarily increased due to the complaints, with  
454 the construction team acting more responsibly toward the hospital stakeholders.

#### 455 **Vignette 4: Laundry trolleys overflow**

456 Similar in nature, but relating to pre-construction work, is the following vignette. Anticipated  
457 construction work to heating and boiler areas resulted in contractors moving fully loaded  
458 laundry trolleys into normal hospital service corridors from the plantrooms (often used as  
459 quick storage space for hospital services (e.g. laundry). As a result, the laundry trolleys

460 blocked and impeded staff, patient and service movements within the hospital, causing  
461 disruption and inconvenience. Following several complaints, the contractors moved the  
462 trolleys to an adjacent building following further negotiations with hospital staff. Despite the  
463 initial delay, engineering work itself was completed to plan without further problems. The  
464 vignette may be located in segment F of the stakeholder engagement model (figure 2) as  
465 behaviour outside the accepted norm: the contractors not engaging with staff prior to moving  
466 the trolleys as they did not consider their actions as problematic. As work commenced on the  
467 plantroom, a compromise regarding the trolleys had been identified, and as a result,  
468 stakeholder engagement and agency improved (figures 3-5). By completion, the contractors  
469 had redeemed themselves in the views of the hospital, although negative recollections of the  
470 incident lingered in the memory of those interviewed. Both the laundry trolleys and electrical  
471 wiring vignettes indicate another reality of construction stakeholder management: that  
472 supplementary activities preceding/resulting from the main construction project tasks also  
473 have a potential to impact stakeholder relations and perceptions of companies.

#### 474 **Vignette 5: Secondary glazing**

475 The final vignette relates to installation of secondary glazing across two hospital wings  
476 containing live clinical areas and consultation rooms. This was a challenging project task in  
477 terms of stakeholder engagement; each wing being 5 floors in height, containing a  
478 multiplicity of patient rooms, medical services and staff educational areas. Work required the  
479 transportation of equipment and materials to the hospital on large trucks, with consequent  
480 effects for hospital services and transportation links. These issues were identified at pre-  
481 construction stage, with the lead contractor communicating closely with the hospital  
482 (responsible behaviour: figure 2). The lead contractor Client Relations Manager explained  
483 initial engagement work,

484 “Our priority was to ensure the community knew the road would be busier with our  
485 construction traffic, so I walked around and took a list of all the businesses and residents. We  
486 did 120 letter drops informing them of the upcoming work.”

487 An adjacent investment bank required clarification of how any resulting vibrations might  
488 affect their trading room operations in their basement; the construction team following the  
489 enquiry up and meeting directly with the business,

490 “Our experience told us the bank would not be affected. However, the bank insisted our  
491 heavy equipment should go on roads unsuitable for our needs. The only way to convince him  
492 was to show him we were right...He was finally happy once he saw that our trucks had no  
493 effect on the bank`s operations.” (Client Relations Manager)

494 Here we see an example of an external stakeholder attempting to change construction activity  
495 in their favour, to the potential detriment of the project. Pre-construction stakeholder  
496 engagement work was not limited to external stakeholders. For example, the need to mitigate  
497 potential dust contagion across all occupied space overlooking the construction site required a  
498 detailed programme of works to be produced in consultation with hospital staff (which was  
499 revisited several times over). Through daily communication, it was possible to identify beds  
500 and equipment needing to be moved in advance, thus minimising disruption to staff, patients  
501 and services. This up-front lead contractor time investment equates to responsible corporate  
502 behaviour.

503 With commencement of construction, responsible behaviour continued, although intensity of  
504 stakeholder engagement work decreased; each hospital floor area needing a minimum of 3  
505 visits to complete measuring, fitting and installation of the glazing, with dialogue between  
506 parties being critical at every stage. Stakeholder engagement remained responsible  
507 throughout the construction cycle for this vignette, engagement activity increasing again at

508 the end of the work package (both NHS and construction interviewees giving positive  
509 recollections). However, risks were present throughout the cycle of this vignette. For  
510 example, the request from a bank for favourable treatment on their terms could have  
511 potentially shifted the vignette from A (responsible behaviour) to B (anti-capitalism).  
512 However, the lead contractor resisted this request: the demands of the bank for alternative  
513 construction transportation potentially compromising the primary objectives of the contractor  
514 on the project. Similarly, subcontractor engagement continued to be appropriate through the  
515 work package (limited paternalism: figure 4); the possibility of it shifting remaining real, but  
516 held in check through effective communication with the lead contractor and correct execution  
517 of tasks.

## 518 **Discussion**

519 Through a series of vignettes, the complexities of stakeholder engagement have been clarified  
520 in the context of a fast moving construction project with multiple concurrent work packages  
521 and multiple organizational involvement. By mobilizing Greenwood`s model, a more  
522 sophisticated understanding of stakeholder engagement in construction was reached,  
523 revealing how engagement activities define relationships between parties in corporate social  
524 responsibility terms. Whereas Lane and Devin`s (2018) process model of operationalizing  
525 stakeholder engagement focuses upon practical issues of engagement, Greenwood`s (2007)  
526 model scopes out the consequences of engagement activities, and this paper furthers  
527 understanding of both aspects. This discussion now takes forward the analysis of empirical  
528 evidence, revisiting the insights to explore issues theoretically, practically and from a  
529 methodological perspective.

## 530 *Theoretical Insights*

531 Whilst maintaining positive relations with stakeholders and treating them in a responsible and  
532 ethical way should be considered a part of any organisation`s CSR work, the vignettes  
533 illustrated how this is not always possible or simple to achieve in construction. The  
534 multiplicity of tasks and entry of multiple teams on site complicate the picture considerably,  
535 as revealed by the vignettes. For example, low engagement activities can drift into  
536 paternalistic behaviours from contractors, if they don`t double check their actions with  
537 another party, with potential dangers accruing. It is true that hospitals are particularly  
538 complex organisations, and it is unlikely that the electrical wiring/laundry trolleys vignettes  
539 would have resulted in such negative repercussions in other project environments. However,  
540 it can be argued that lower levels of engagement are more likely to result in paternalistic or  
541 neoclassic behaviours. There are dangers to an organisation`s CSR credentials when actions  
542 drift into these quadrants of the model. It is recommended that further stakeholder  
543 engagement work can assist in preventing such instances.

544 The unique nature of stakeholder engagement work in construction also needs to be re-  
545 emphasized as the paper identified how associations between engagement action and  
546 consequence in CSR terms are important. For example, the use of subcontractor teams is a  
547 common occurrence on projects, but the impact of subcontractor engagement is seldom  
548 recognised. Whilst subcontractors often have no immediate link with the client, the use of  
549 subcontractors immediately binds the lead contractor with other parties on the construction  
550 side in stakeholder management terms; so that poor practices have repercussions for more  
551 than one organisation (the converse may also be said to be true). So, whilst stakeholder  
552 engagement may lie with a single organisation at some stage of the project lifecycle,  
553 responsibility for actions will be shared amongst the construction project team: the client  
554 being unlikely to make distinctions between parties.

555 Greenwood (2007) argues that stakeholder engagement is morally neutral practice, in that it  
556 may be used in a moral or immoral way, but is not necessarily either of these (although  
557 having the potential to be both). In construction, stakeholder engagement may be morally  
558 positive when it enables cooperation through a mutually beneficial relationship. For  
559 example, the subcontractor initiative to provide fans to patients was mutually beneficial for  
560 several stakeholder groups. Conversely, engagement may be morally negative (immoral  
561 practice) when used as a deceptive control mechanism when masquerading as corporate  
562 responsibility. There were no clear examples of this from the hospital case study projects.  
563 What is clear is that in construction, stakeholder engagement may be high, but not result in  
564 any tangibly positive responsible treatment of stakeholders. This is because stakeholder  
565 engagement is essentially morally neutral, requiring further actions in order to have any  
566 potentially positive effect. It can also be noted that stakeholder engagement may be low, but  
567 stakeholder interests may be being served (by efficient subcontractor teams completing work  
568 effectively). Theoretically, the insights also inform stakeholder management in construction  
569 scholarship generally, especially in relation to CSR, ethics and relations between parties.

#### 570 *Practical Insights*

571 The insights of the paper align with the argument of Missonier and Loufrani-Fedida (2014)  
572 that projects are characterized by dynamic and emergent relationships between stakeholders,  
573 where relations between parties co-evolve with project work trajectories. In several of the  
574 vignettes, the Client Relations Manager provided a consistent line of communication between  
575 constructors and stakeholders and this had positive effects on relations between parties.  
576 Employing an individual for stakeholder work has obvious resource implications for the  
577 project, but the lead contractor judged this work important enough to justify the cost. It is  
578 interesting to note that in the vignettes where engagement work drifted into negative  
579 conceptual quadrants (electrical rewiring/laundry trolleys), that extra level of communication

580 was missing. Communication channels with stakeholders (i.e. regular meetings; letter-drops;  
581 posters) are also intrinsic mechanisms of engagement, so their importance should not be  
582 underplayed in the overall assessment of what works effectively on projects. It is also clear  
583 from the research evidence gathered that although the dominant idea in the literature is that a  
584 Project Manager performs stakeholder management work (c.f. Newcombe, 2003; Chinyio  
585 and Olomolaiye, 2010; Walker et al., 2008), it is evident that on large public sector projects  
586 (e.g. hospitals) a different approach is justified.

587 Stakeholder engagement activity brings specific practical demands on parties engaged in  
588 construction, prompting specific measures (e.g. screening of patients; provision of fans;  
589 moving of patients) to be taken. However, responsible treatment of stakeholders does not  
590 necessarily follow engagement work and can also be judged differently depending upon  
591 points of view. For example, the installation of secondary glazing (vignette 5) engaged  
592 multiple stakeholder groups, with certain groups (e.g. the bank) pulling the lead contractor in  
593 a certain directions, only to be counter-balanced by other stakeholder interests. When there  
594 were no significantly different competing stakeholder demands relating to a work task (e.g.  
595 resolution of the laundry trolleys overflow), the lead contractor was not pulled in different  
596 directions. In many ways, vignette 1 provides an ideal model of stakeholder engagement:  
597 early and detailed preconstruction discussions with the client by the lead contractor, followed  
598 by efficient completion of work with minimal subcontractor engagement, and then re-  
599 engagement with the client on task completion.

600 However, stakeholder opinion can change over time, with a positive opinion of one manager  
601 not necessarily being shared with others. Rowan (2000) argues that organisations should  
602 fulfil their stakeholder obligations by showing the greatest respect for persons, although there  
603 will be a hierarchy of claims with corresponding duties. The empirical insights validate this  
604 contention, as when responsible behaviour was lacking (vignette 3 and 4), it was recognised



605 and rectified. In the secondary glazing vignette, lead contractor engagement with the bank  
606 was morally responsible, but the decision to reject bank demands for re-routing construction  
607 traffic was made by balancing competing stakeholder needs (which are inevitably bound to  
608 project demands) to reach a decision that prioritised hospital client needs. This is not  
609 surprising, but if we focus on the *attributes of the relationship* between the hospital and bank  
610 through the vignette, it can be observed how the bank was always treated responsibly  
611 (quadrant B, figure 2), from initial engagement, dialogue and rejection of demand through to  
612 physical demonstration of truck movements. Therefore, the variables of stakeholder agency  
613 and engagement levels can fluctuate as a construction task evolves. Here we see clearly how  
614 stakeholder engagement in construction is an unfolding process defined by the relationship  
615 between parties.

616 If we refer to the contentions of Lane and Devin (2018) and Greenwood (2007) again  
617 regarding stakeholder engagement practice, we can identify definite connections with a  
618 construction project context. For example, viewing stakeholder engagement work as a  
619 process through the project cycle, and understanding how different work activities and  
620 different parties can impact other organisations (e.g. the client; external stakeholders)  
621 viewpoint of responsible, ethical behaviours, the importance of stakeholder engagement work  
622 for AEC organisations are brought into a fresh light. A better informed theoretical  
623 understanding of stakeholder engagement work can therefore have significant practical  
624 implications.

625 That stakeholder engagement may be considered an evolving, ongoing process with  
626 antecedents (e.g. strategic definition/ business case), with a series of “steps” providing a  
627 framework for potential “checks and balance points” (Lane and Devin, 2018, p.278),  
628 increases the chance for problem identification/rectification. Project work packages offer an  
629 obvious possible checkpoint for reviewing what is happening, as do entry of subcontractor

630 teams to a construction site. Periodic review of stakeholder engagement work on a project is  
631 certainly beneficial for all parties concerned.

632 With reference to how stakeholder engagement relates to conceptions of ethics and strategic  
633 management (c.f. Noland and Phillips, 2010; Lane and Devin, 2018), the paper contends that  
634 in a construction project setting, engagement of stakeholders must be integral to a firm`s  
635 strategy (here labelled as an Ethical Strategist perspective). A good strategic approach  
636 therefore encompasses moral concerns that create value for as many stakeholders as possible.  
637 Ideally, construction companies engaging on a project should adopt an Ethical Strategist  
638 perspective to embrace both the conceptual and practical concerns of stakeholders they  
639 engage with; AEC companies with aspirations to be “socially responsible” should examine  
640 their stakeholder engagement actions as much as their production economies as both are  
641 important in CSR terms.

#### 642 *Methodological Insights*

643 Application of Greenwood`s model to a construction context provides a richer understanding  
644 of how engagement behaviours may be assessed in qualitative terms: both stakeholder  
645 engagement actions and the responsible treatment of stakeholders being considered as  
646 separate variables that fluctuate through the project lifecycle. The methodological approach  
647 is now briefly revisited for further reflection.

648 Whilst the approach of the paper is open to criticism and critique (data being drawn from a  
649 single hospital project; a particular theoretical lens being used; researcher judgement being  
650 used to relate empirical data to conceptual framework), the flexibility of the model for  
651 exploring stakeholder engagement and CSR issues should be reiterated. The model is  
652 potentially adaptable to multiple engineering management contexts, and could be evolved  
653 from a qualitative tool into a quantitative or measures based model. In this paper, no

654 formulae or calculations were used, but such applications are feasible and possible. For  
655 example, the actions of individuals or utility of certain stakeholder management tools could  
656 conceivably be placed on the model to assess their engagement and agency credentials.

657 One particular area for exploration is BIM (Building Information Modelling). Whilst there is  
658 potential for using BIM technologies for stakeholder management for facilities management  
659 on existing buildings, this is seldom evident, as noted by numerous scholars, including Volk  
660 at al. (2014), Ghaffarianhoseini et al. (2017), Parn et al. (2017), He et al. (2017) and Zou et  
661 al. (2017). An in-depth exploration of how stakeholder management issues associated with  
662 different construction tasks may be mobilized around an evolving digital model is beyond the  
663 scope of this paper. However, it is reasonable to argue that proactive use of BIM for each of  
664 the vignettes described could potentially have made a positive difference; a more considered  
665 understanding of how construction activity could impact hospital operations potentially  
666 accruing from BIM use.

## 667 **Conclusion**

668 The paper demonstrated how it is possible to theorize a more complex relationship between  
669 stakeholder engagement and agency (i.e. the ethical, responsible treatment of stakeholders) in  
670 a construction project context. The models of Greenwood (2007) and Lane and Devin (2018)  
671 provided a framework and template upon which stakeholder engagement in construction  
672 could be usefully cross-referenced and understood in its` own way. When empirical data was  
673 applied to the models, the unique nature of stakeholder engagement in construction came into  
674 clearer focus; stakeholder engagement being a complex, entwining process of responsibility,  
675 organizational action and work package requirements where stakeholder engagement and  
676 agency may be understood as separate variables that result in shifts between responsible,  
677 paternalistic, neoclassic and strategic behaviours. Examination of the vignettes also affirmed

678 that stakeholder engagement is an evolving process, where it is possible to identify, track and  
679 monitor the impact and effect of engagement activity on the corporate social responsibility  
680 (CSR) credentials of AEC companies engaged in construction project work. Such a micro  
681 view of stakeholder engagement in action brings a fresh perspective to the impact of daily  
682 project work activities on the CSR performance of companies engaged on a project.

683 The unique characteristics of stakeholder engagement in construction were also drawn out by  
684 the paper. Of particular note were how shifts in stakeholder engagement and agency can  
685 define relations between parties in CSR terms and how the ethical aspirations of AEC  
686 organizations are impacted by daily project activities. On live construction projects, multiple  
687 party interests are routinely bound together through engagement work, with collective  
688 blame/praise often resulting from a client who makes no distinction between who is being  
689 employed to do what. The vignettes also highlighted the effect and impact of subcontractor  
690 entry into a project situation and the importance of communication between parties at  
691 multiple levels.

692 A number of practical and methodological insights were also made by the paper. The separate  
693 steps of stakeholder engagement were identified as well as execution of these steps (through  
694 construction project work package activities). The recognition that stakeholder engagement  
695 is an evolving process recommends the use of periodic reviews of engagement activity  
696 (perhaps pivoting around project work packages) to ensure the CSR strategic objectives of  
697 organisations are aligned to stakeholder engagement work actually occurring. That  
698 stakeholder engagement work in construction may be understood as variables on scales of  
699 axes (relating to stakeholder engagement and stakeholder agency) was a further contribution  
700 of the paper; the methodological opportunities for future work being open for future  
701 exploration.

702 By modelling and theorizing the implementation of stakeholder engagement in construction,  
703 the paper makes a contribution to an area of stakeholder management scholarship that is in  
704 need of more attention. The framework of analysis itself provides a potential referential tool  
705 for AEC companies and contractors assessing stakeholder management issues ahead of and  
706 during project work, so that stakeholder engagement is better understood as an evolving,  
707 complex process with shifting and multiple inter-organisational effects. The findings point  
708 towards further applied research to explore and expand understanding and use of the  
709 engagement concept in different engineering and project management contexts.

#### 710 **Data Availability**

711 Some or all data, models, or code generated or used during the study are proprietary or  
712 confidential in nature and may only be provided with restrictions (e.g. anonymized data).

#### 713 **Acknowledgements**

714 The author would like to thank the anonymous reviewers and Editor for their important  
715 comments and thoughts on earlier drafts of this paper.

#### 716 **References**

717 APM (Association for Project Management), 2012. Body of Knowledge, (6<sup>th</sup> Edition). APM,  
718 Buckinghamshire.

719 Atkin, B., Skitmore, M., 2008. Editorial: stakeholder management in construction.  
720 Construction Management and Economics, 26, 6, 549-552.

721 Chinyio, E., Olomolaiye, P., 2010. Construction stakeholder management, Wiley Blackwell,  
722 Chichester.

723 Chinyio, E. A., Akintoye, A., 2008. Practical approaches for engaging stakeholders: findings  
724 from the UK. Construction Management and Economics, 26, 6, 591-599.

725 Collinge, W.H. (2016). Stakeholder management strategies during construction project work.  
726 British Journal of Healthcare Management, 22, 8, 394-400.

727 Collinge, W.H., Harty, C.F., 2014. Stakeholder interpretations of design: semiotic insights  
728 into the briefing process. Construction Management and Economics, 32, 7-8, 760-772.

729 Deegan, C. (2002). "The legitimising effects of social and environmental disclosures – a  
730 theoretical foundation". Accounting, Auditing and Accountability Journal, 15, 3, 282-311.

731 Fraser, C., Zhu, C., 2008. Stakeholder perception of construction site managers` effectiveness.  
732 Construction Management and Economics, 26, 6, 579-590.

733 Freeman, R.E., 1999. Response: divergent stakeholder theory. Academy of Management  
734 Review, 24, 2, 233-236.

735 Friedman, A.L., Miles, S., 2002. Developing stakeholder theory. Journal of Management  
736 Studies, 39, 1, 1-21.

737 Ghaffarianhoseini, A., Tookey, J., Ghaffarianhoseini, A., Naismith, N., Azhar, S., Efimova. O.  
738 and Raahemifar, K. (2017). Building Information Modelling (BIM) uptake: Clear benefits,  
739 understanding its implementation, risks and challenges, Renewable and Sustainable Energy  
740 Reviews, 75, 1046-1053.

741 Greenwood, M. (2007). Stakeholder engagement: beyond the myth of corporate responsibility.  
742 Journal of Business Ethics, 74, 4, 315-327.

743 He, Q., Wang, G., Luo, L., Shi, Q., Xie, J. and Meng, X. (2017). Mapping the managerial areas  
744 of Building Information Modeling (BIM) using scientometric analysis, International Journal of  
745 Project Management, 35, 4, 670-685.

746 Kaler, J. (2002). Morality and strategy in stakeholder identification. Journal of Business Ethics,  
747 39, 1, 919-99.

748 Lane, A.B. and Devin, B. (2018). Operationalizing stakeholder engagement in CSR: a process  
749 approach. *Corporate Social Responsibility and Environmental Management*, 25, 3, 267-280.

750 Leung, M, Yu, J and Liang, Q (2013) Improving Public Engagement in Construction  
751 Development Projects from a Stakeholder's Perspective. *Journal of Construction Engineering  
752 and Management*, 139(11).

753 Mathur, V N, Price, A and Austin, S (2008) Conceptualizing stakeholder engagement in the  
754 context of sustainability and its assessment. *Construction Management and Economics*, 26(06),  
755 601-9.

756 Missonier, S. and Loufrani-Fedida, S. (2014). Stakeholder analysis and engagement in projects:  
757 from stakeholder relational perspective to stakeholder relational ontology. *International Journal  
758 of Project Management*, 32, 7.

759 Mitchell, R.K., Agle, B.R. and Wood, D.J. (1997). Towards a theory of stakeholder  
760 identification and salience: defining the principle of who and what really counts. *Academy of  
761 Management Review*, 22, 4, 853-886.

762 Newcombe, R., 2003. From client to project stakeholders: a stakeholder mapping approach.  
763 *Construction Management and Economics*, 21, 8, 841-848.

764 Noland, J. and Phillips, R. (2010). Stakeholder engagement, discourse ethics and strategic  
765 management. *International Journal of Management Reviews*, 12, 1.

766 Olander, S., Landin, A., 2008. A comparative study of factors affecting the external stakeholder  
767 management process. *Construction Management and Economics*, 26, 6, 553-561.

768 Owen, D., Swift, T., Humphrey, C. and Bowerman, M. (2000) The new social audits:  
769 accountability, managerial capture or the agenda of social champions? *European Accounting  
770 Review*, 9, 1, 81-98.

771 Parn, E.A., Edwards, D.J. and Sing, M.C.P. (2017). The building information modelling  
772 trajectory in facilities management: A review. *Automation in Construction*, 75, 45-55.

773 Phillips, R. (1999). "On stakeholder delimitation" *Business and Society*, 38, 32-34.

774 Prasad, S., 2008. *Changing Hospital Architecture*, RIBA Publishing, London.

775 Rowan, J.R. (2000). The moral foundation of employee rights, *Journal of Business Ethics*, 24,  
776 4, 355-361.

777 Smyth, H., 2008. The credibility gap in stakeholder management: ethics and evidence of  
778 relationship management. *Construction Management and Economics*, 26, 6, 633-643.

779 Trevino, L. K., Weaver, G.R., 1999. The stakeholder research tradition: converging theorists -  
780 not convergent theory. *Academy of Management Review*, 24, 2, 222-227.

781 Turner, J.R., 2009. *The Handbook of Project Based Management*, third ed. McGraw Hill. New  
782 York.

783 Volk, R., Stengel, J. and Schultmann, F. (2014). Building Information Modeling (BIM) for  
784 existing buildings — Literature review and future needs. *Autom. Constr.* 38, 109–127.

785 Walker, D. H. T., Bourne, L.M., Shelley, A., 2008. Influence, stakeholder mapping and  
786 visualization. *Construction Management and Economics*, 26, 6, 645-658.

787 Wicks, A.C., Berman, S.L. and Jones, T.M. (1999). The structure of optimal trust: moral and  
788 strategic implications. *Academy of Management Review*, 24, 1, 99-116.

789 Yang J., Shen, G.Q., Ho, M. Drew, D.S., Xue, X., (2011a). Stakeholder management in  
790 construction: an empirical study to address research gaps in previous studies. *International*  
791 *Journal of Project Management*, 29, 900-910.



792 Yang, J, Shen, P Q, Bourne, L, Ho, C M-F and Xue, X (2011b) A typology of operational  
793 approaches for stakeholder analysis and engagement. *Construction Management and*  
794 *Economics*, 29(02), 145–62.

795 Yu, J and Leung, M (2018) Structural Stakeholder Model in Public Engagement for  
796 Construction Development Projects. *Journal of Construction Engineering and Management*,  
797 144(06).

798 Zou, Y., Kiviniemi, A. and Jones, S.W. (2017). A review of risk management through BIM  
799 and BIM-related technologies, *Safety Science*, 97, 88-98.

800

801

802

803

804

805

806

807

808

809

810

811

812

813

814

815

816

817

Responsibility	When levels of stakeholder engagement combine with levels of responsible treatment towards those stakeholders. Sector A is labelled “corporate social responsibility”: the foundation of stakeholder theory; Sector B “anti-capitalism”: disproportionate stakeholder engagement or involvement of stakeholders without a legitimate claim.
Paternalism	When stakeholder interests are addressed without direct engagement of the stakeholders. Sector C “limited paternalism” equates to some limited engagement with stakeholders such as consultation; Sector D “strong paternalism” relates to high intervention with no engagement. Such actions risk impinging on stakeholder`s autonomy and self-determination.
Neoclassical	Organisations with little interest in the needs of stakeholders or engaging with them, undertake actions that may be labelled “neo-classic”. “Market” neo-classic behaviour (Sector E) equates to treating stakeholders as an economic exchange, although still legal. “Illegal” (Sector F) implies actions beyond acceptable societal norms: stakeholders being defrauded or their rights being abused.
Strategic	When an organisation responds to the needs of stakeholders in order to further their own interests, such actions may be understood as strategic in nature (Sector G). Irresponsible behaviour (Sector H) occurs when organisations act on the pretext of stakeholder interests, when not doing so.

819

820 Table 1: stakeholder engagement/agency quadrant definitions (see Greenwood, 2007, p.322)

821

822

823

824

825

826

827

	TITLE	STAKEHOLDER ENGAGEMENT	STAKEHOLDER AGENCY	RELATIONSHIP BETWEEN STAKEHOLDER ENGAGEMENT AND STAKEHOLDER AGENCY
A	Responsibility (traditional corporate social responsibility)	Comprehensive engagement of stakeholders	Acts in the interest of legitimate stakeholder	Optimal level of engagement with optimal level number of stakeholders, enhancing responsibility
B	Anti-capitalism	Extensive engagement with stakeholders	Acts in the interest of all stakeholder including illegitimate	Participation of so many (including illegitimate) stakeholders that the purpose of the firm is compromised
C	Limited Paternalism	Little stakeholder engagement as determined by the company	Acts in the interest of legitimate stakeholder as determined by the company	Acting in the perceived interest of the stakeholders with limited consultation
D	Strong Paternalism	No stakeholder engagement as determined by the company	Acts in the interest of legitimate stakeholder as determined by the company	Acting in the perceived interest of the stakeholders without consultation to the point of interference and reduction of liberty
E	Market	Little stakeholder engagement in response to market demand	Does not act in the interest of legitimate stakeholder	Low engagement to further the interests of the owners. Organisation and stakeholders as economic enemies
F	Illegal (outside the boundary of the law or accepted custom)	No stakeholder engagement as determined by agents in control of the company	Does not act in the interest of legitimate stakeholder	Agents act in their or principals interests either illegally or outside moral minimum norms. Could include fraud, theft, and abuse of human rights
G	Reputation / Legitimacy	Engaging with legitimate stakeholders to further shareholder interests	Appears to act in the interest of all stakeholders	Engaging stakeholders enhances strategic alignment, reputation and legitimacy with stakeholders
H	Irresponsibility (bad faith)	Extensive engagement without accountability or responsibility towards stakeholders	Appears to act in the interest of only influential stakeholders	Engaging with stakeholders under deceptive conditions, acting “as if” the aim is to meet stakeholder interests

828

829 Table 2: stakeholder engagement model segments (Greenwood, 2007, p.323)

830

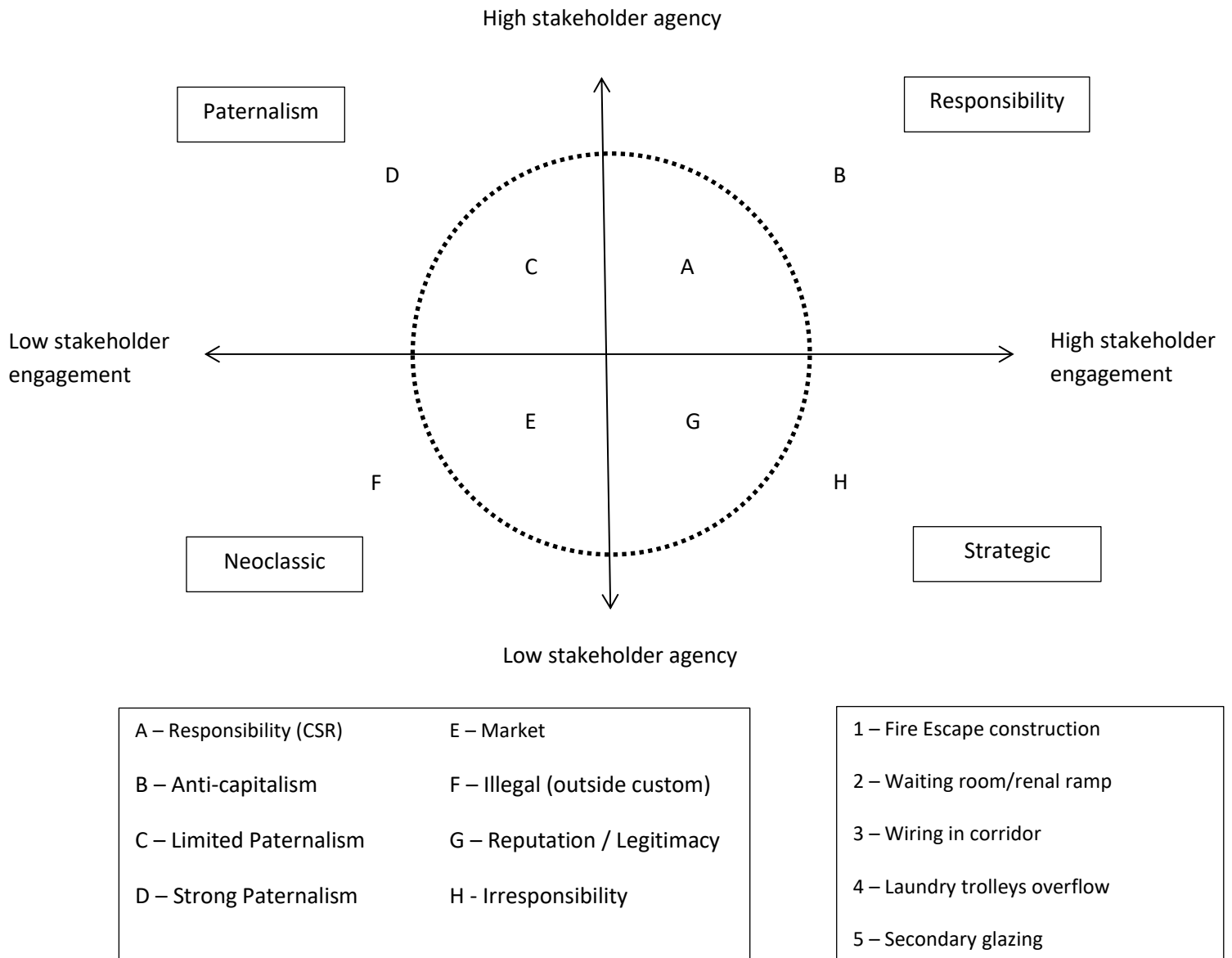


Figure 1: model of stakeholder engagement (Greenwood, 2007, p.322)

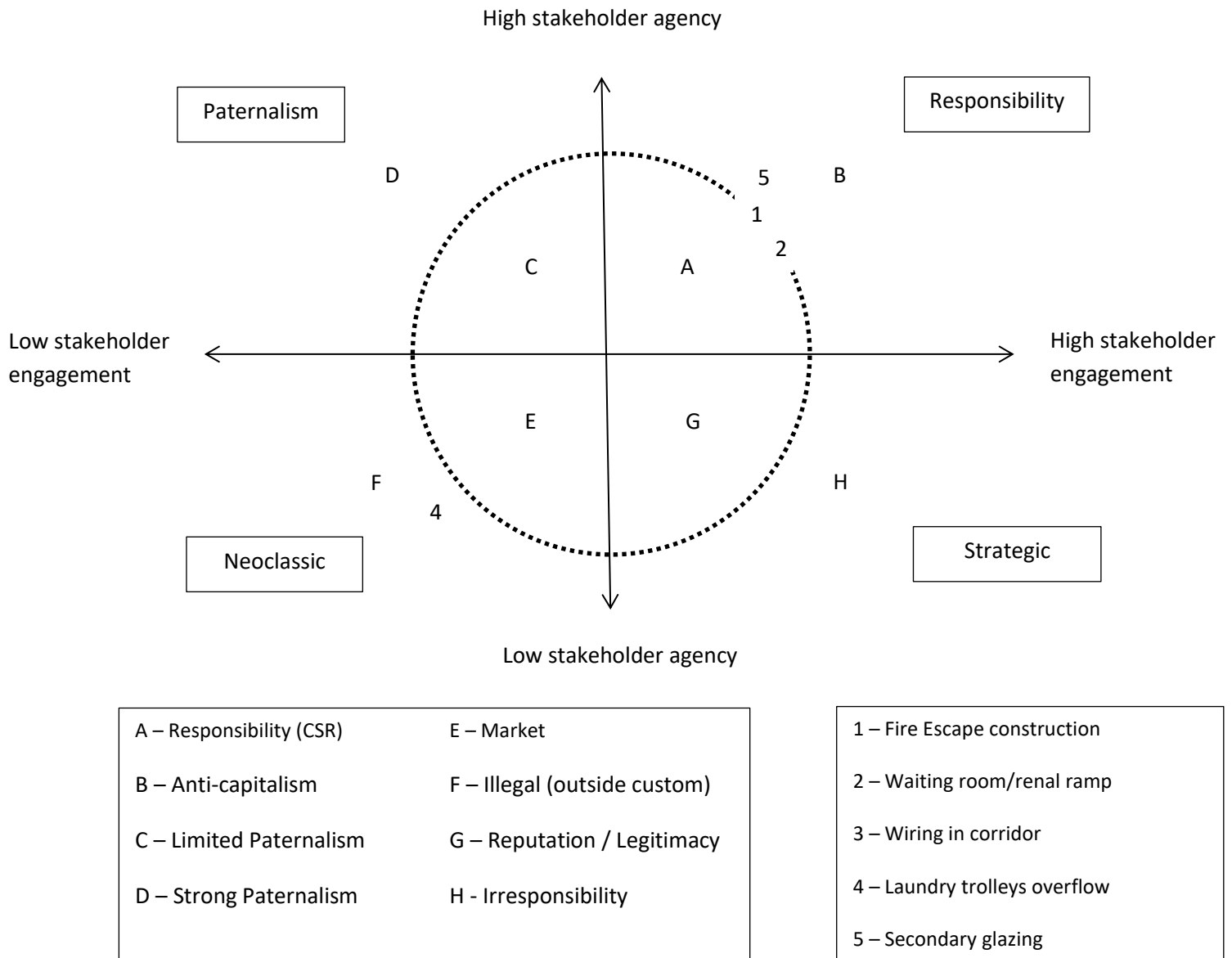


Figure 2: pre-construction: positioning of vignettes

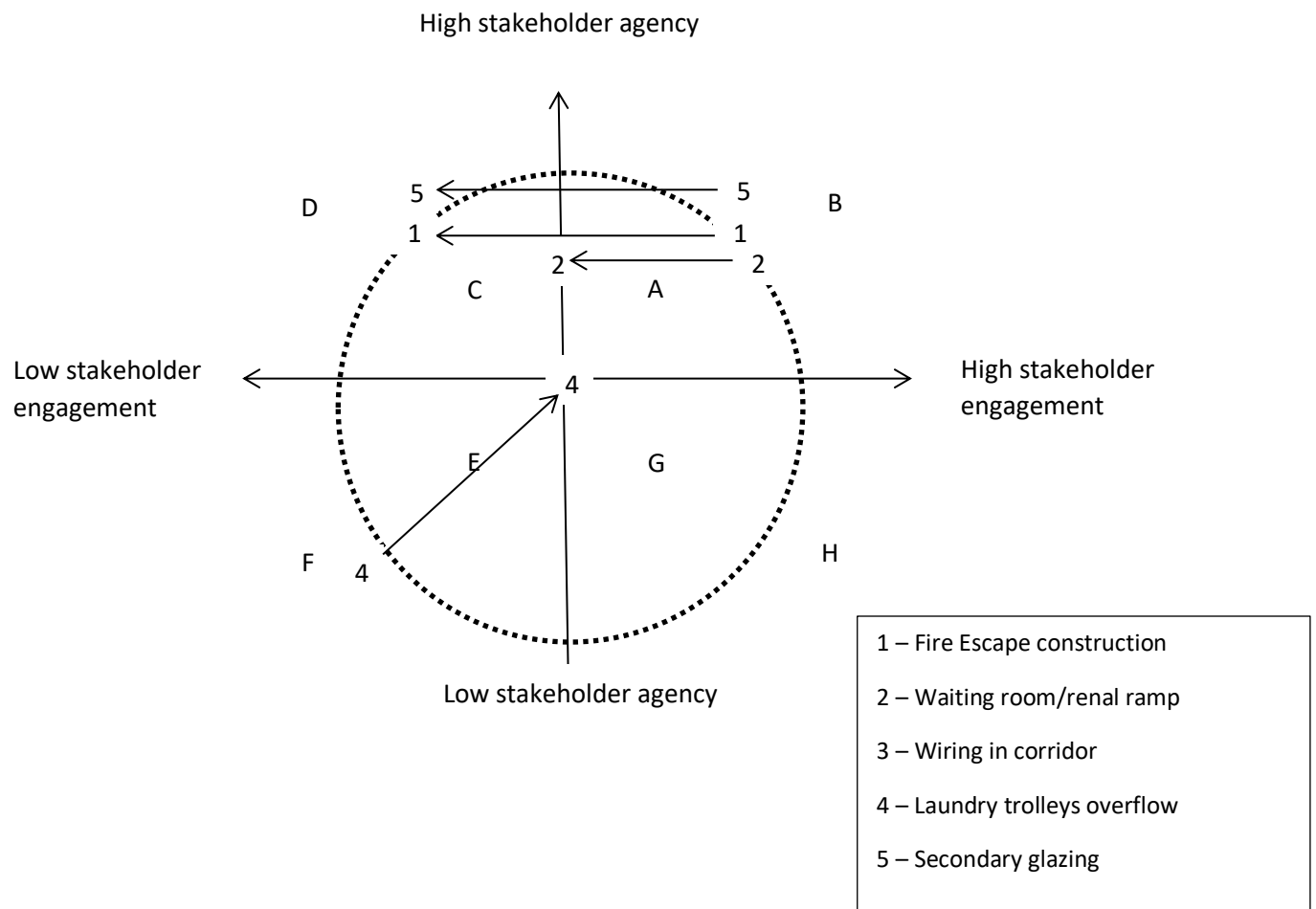


Figure 3: commencement of work: positioning of vignettes

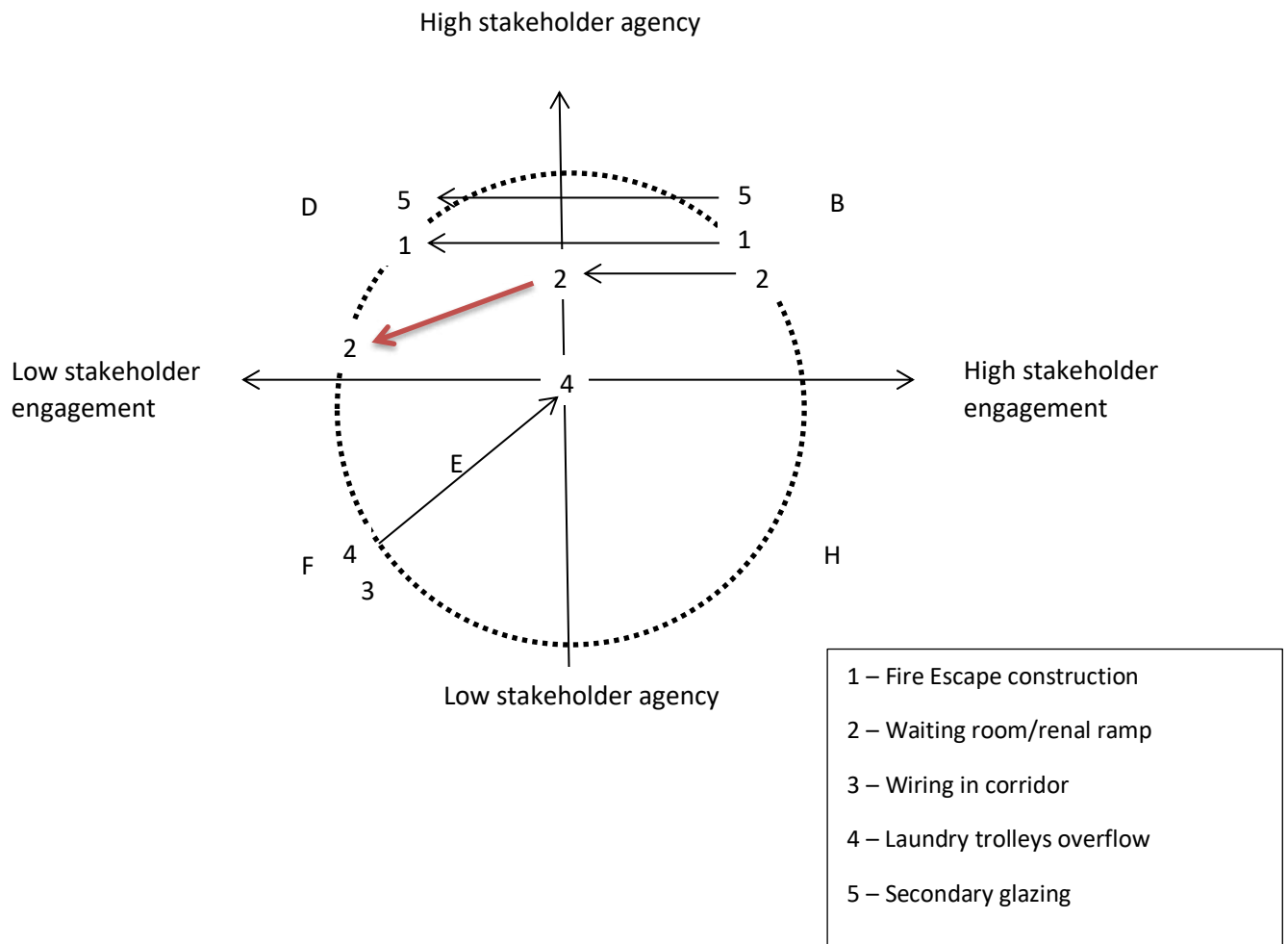


Figure 4: subcontractor phase: positioning of vignettes

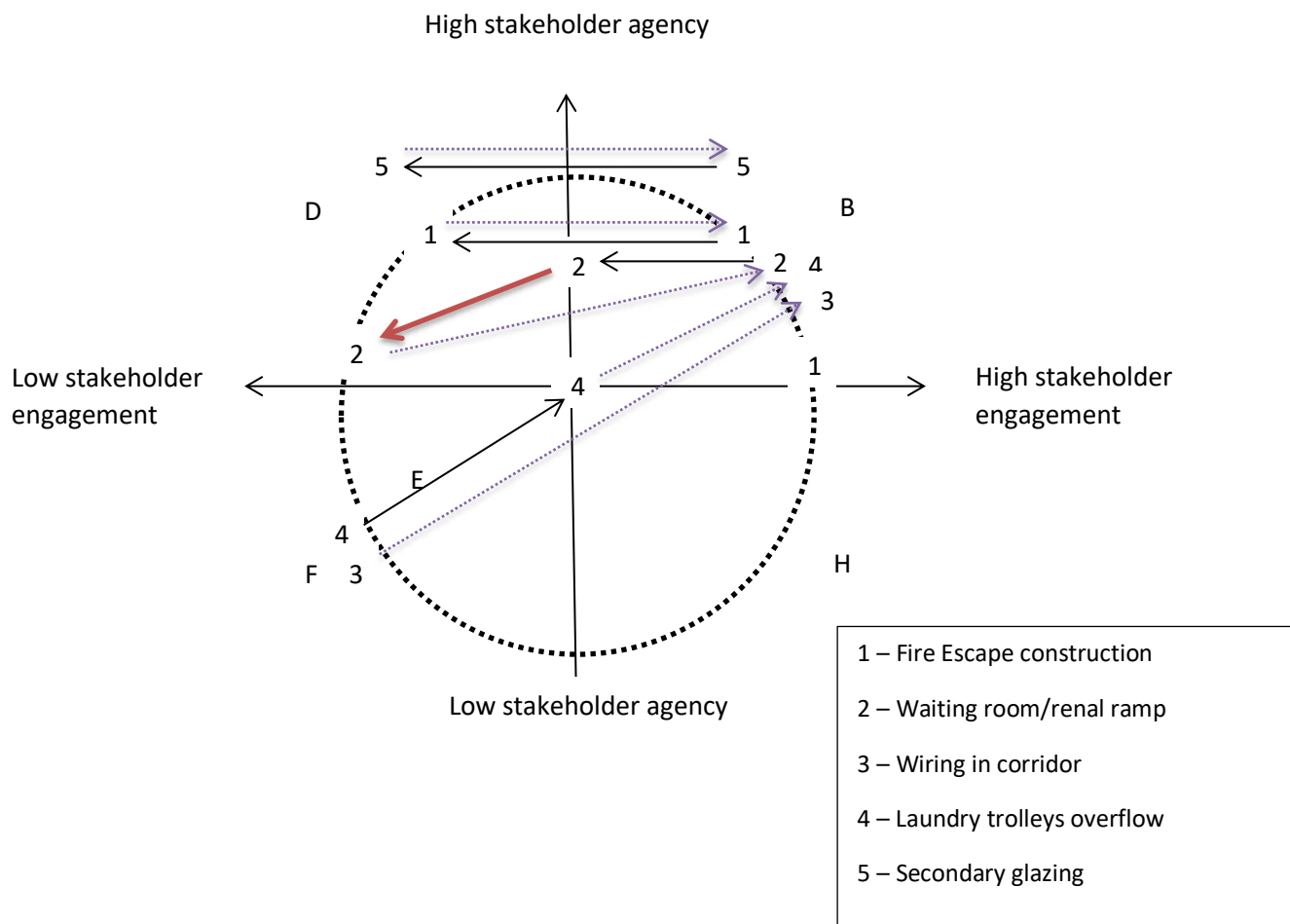


Figure 5: completion: positioning of vignettes of practice



## FIGURE CAPTIONS

FIGURE 1: model of stakeholder engagement (Greenwood, 2007, p.322)

FIGURE 2: pre-construction: positioning of vignettes

FIGURE 3: commencement of work: positioning of vignettes

FIGURE 4: subcontractor phase: positioning of vignettes

FIGURE 5: completion: positioning of vignettes of practice

1  
2  
3  
4 **SPRINGER NATURE LICENSE**  
5 **TERMS AND CONDITIONS**  
6  
7 **Jul 17, 2019**  
8  
9

---

---

10  
11  
12 This Agreement between University of Manchester -- William Collinge ("You") and Springer  
13 Nature ("Springer Nature") consists of your license details and the terms and conditions  
14 provided by Springer Nature and Copyright Clearance Center.  
15

16	License Number	4631551376620
17	License date	Jul 17, 2019
18	Licensed Content Publisher	Springer Nature
19	Licensed Content Publication	Journal of Business Ethics
20	Licensed Content Title	Stakeholder Engagement: Beyond the Myth of
21		Corporate Responsibility
22	Licensed Content Author	Michelle Greenwood
23	Licensed Content Date	Jan 1, 2007
24	Licensed Content Volume	74
25	Licensed Content Issue	4
26	Type of Use	Journal/Magazine
27	Requestor type	publisher
28	Publisher	American Society of Civil Engineers
29	Format	print and electronic
30	Portion	figures/tables/illustrations
31	Number of figures/tables/illustrations	3
32	Will you be translating?	no
33	Circulation/distribution	<501
34	Author of this Springer Nature content	yes
35	Title of new article	Stakeholder engagement in construction: exploring
36		corporate social responsibility (CSR), ethical
37		behaviours and practices
38	Lead author	William H Collinge
39	Title of targeted journal	Journal of Construction Engineering and
40		Management
41	Publisher	American Society of Civil Engineers
42	Publisher imprint	ASCE
43	Expected publication date	Dec 2019
44	Portions	Table 1 (page 319) Table 2 (page 323) Figure 1
45		(page 322)

46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65

Requestor Location	University of Manchester Pariser Building 76 Sackville Street  Manchester, M1 7JR United Kingdom Attn: University of Manchester
Total	0.00 GBP
Terms and Conditions	

### **Springer Nature Customer Service Centre GmbH Terms and Conditions**

This agreement sets out the terms and conditions of the licence (the **Licence**) between you and **Springer Nature Customer Service Centre GmbH** (the **Licensor**). By clicking 'accept' and completing the transaction for the material (**Licensed Material**), you also confirm your acceptance of these terms and conditions.

#### **1. Grant of License**

1. The Licensor grants you a personal, non-exclusive, non-transferable, world-wide licence to reproduce the Licensed Material for the purpose specified in your order only. Licences are granted for the specific use requested in the order and for no other use, subject to the conditions below.
2. The Licensor warrants that it has, to the best of its knowledge, the rights to license reuse of the Licensed Material. However, you should ensure that the material you are requesting is original to the Licensor and does not carry the copyright of another entity (as credited in the published version).
3. If the credit line on any part of the material you have requested indicates that it was reprinted or adapted with permission from another source, then you should also seek permission from that source to reuse the material.

#### **2. Scope of Licence**

1. You may only use the Licensed Content in the manner and to the extent permitted by these Ts&Cs and any applicable laws.
2. A separate licence may be required for any additional use of the Licensed Material, e.g. where a licence has been purchased for print only use, separate permission must be obtained for electronic re-use. Similarly, a licence is only valid in the language selected and does not apply for editions in other languages unless additional translation rights have been granted separately in the licence. Any content owned by third parties are expressly excluded from the licence.

3. Similarly, rights for additional components such as custom editions and derivatives require additional permission and may be subject to an additional fee. Please apply to [Journalpermissions@springernature.com/bookpermissions@springernature.com](mailto:Journalpermissions@springernature.com/bookpermissions@springernature.com) for these rights.
4. Where permission has been granted **free of charge** for material in print, permission may also be granted for any electronic version of that work, provided that the material is incidental to your work as a whole and that the electronic version is essentially equivalent to, or substitutes for, the print version.
5. An alternative scope of licence may apply to signatories of the [STM Permissions Guidelines](#), as amended from time to time.

• **Duration of Licence**

1. A licence for is valid from the date of purchase ('Licence Date') at the end of the relevant period in the below table:

Scope of Licence	Duration of Licence
Post on a website	12 months
Presentations	12 months
Books and journals	Lifetime of the edition in the language purchased

• **Acknowledgement**

1. The Licensor's permission must be acknowledged next to the Licenced Material in print. In electronic form, this acknowledgement must be visible at the same time as the figures/tables/illustrations or abstract, and must be hyperlinked to the journal/book's homepage. Our required acknowledgement format is in the Appendix below.

• **Restrictions on use**

1. Use of the Licensed Material may be permitted for incidental promotional use and minor editing privileges e.g. minor adaptations of single figures, changes of format, colour and/or style where the adaptation is credited as set out in Appendix 1 below. Any other changes including but not limited to, cropping, adapting, omitting material that affect the meaning, intention or moral rights of the author are strictly prohibited.
2. You must not use any Licensed Material as part of any design or trademark.
3. Licensed Material may be used in Open Access Publications (OAP) before publication by Springer Nature, but any Licensed Material must be removed from OAP sites prior to final publication.

1  
2  
3  
4 • **Ownership of Rights**  
5

- 6  
7 1. Licensed Material remains the property of either Licensor or the relevant third party  
8 and any rights not explicitly granted herein are expressly reserved.  
9

10 • **Warranty**  
11  
12  
13  
14

15 IN NO EVENT SHALL LICENSOR BE LIABLE TO YOU OR ANY OTHER PARTY OR  
16 ANY OTHER PERSON OR FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL OR  
17 INDIRECT DAMAGES, HOWEVER CAUSED, ARISING OUT OF OR IN CONNECTION  
18 WITH THE DOWNLOADING, VIEWING OR USE OF THE MATERIALS REGARDLESS  
19 OF THE FORM OF ACTION, WHETHER FOR BREACH OF CONTRACT, BREACH OF  
20 WARRANTY, TORT, NEGLIGENCE, INFRINGEMENT OR OTHERWISE (INCLUDING,  
21 WITHOUT LIMITATION, DAMAGES BASED ON LOSS OF PROFITS, DATA, FILES,  
22 USE, BUSINESS OPPORTUNITY OR CLAIMS OF THIRD PARTIES), AND  
23 WHETHER OR NOT THE PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF  
24 SUCH DAMAGES. THIS LIMITATION SHALL APPLY NOTWITHSTANDING ANY  
25 FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY PROVIDED  
26 HEREIN.  
27  
28  
29

30  
31 • **Limitations**  
32

- 33  
34 1. **BOOKS ONLY:** Where 'reuse in a dissertation/thesis' has been selected the following  
35 terms apply: Print rights of the final author's accepted manuscript (for clarity, NOT the  
36 published version) for up to 100 copies, electronic rights for use only on a personal  
37 website or institutional repository as defined by the Sherpa guideline  
38 ([www.sherpa.ac.uk/romeo/](http://www.sherpa.ac.uk/romeo/)).  
39  
40

41 • **Termination and Cancellation**  
42

- 43 1. Licences will expire after the period shown in Clause 3 (above).  
44  
45 2. Licensee reserves the right to terminate the Licence in the event that payment is not  
46 received in full or if there has been a breach of this agreement by you.  
47  
48  
49  
50

51 **Appendix 1 — Acknowledgements:**  
52

53  
54 **For Journal Content:**

55 Reprinted by permission from [the Licensor]: [Journal Publisher (e.g.  
56 Nature/Springer/Palgrave)] [JOURNAL NAME] [REFERENCE CITATION  
57 (Article name, Author(s) Name), [COPYRIGHT] (year of publication)

58  
59 **For Advance Online Publication papers:**

60 Reprinted by permission from [the Licensor]: [Journal Publisher (e.g.  
61  
62  
63  
64  
65

Nature/Springer/Palgrave)] [JOURNAL NAME] [REFERENCE CITATION  
(Article name, Author(s) Name), [COPYRIGHT] (year of publication), advance  
online publication, day month year (doi: 10.1038/sj.[JOURNAL ACRONYM].)

**For Adaptations/Translations:**

Adapted/Translated by permission from [the Licensor]: [Journal Publisher (e.g.  
Nature/Springer/Palgrave)] [JOURNAL NAME] [REFERENCE CITATION  
(Article name, Author(s) Name), [COPYRIGHT] (year of publication)

**Note: For any republication from the British Journal of Cancer, the following  
credit line style applies:**

Reprinted/adapted/translated by permission from [the Licensor]: on behalf of Cancer  
Research UK: : [Journal Publisher (e.g. Nature/Springer/Palgrave)] [JOURNAL  
NAME] [REFERENCE CITATION (Article name, Author(s) Name),  
[COPYRIGHT] (year of publication)

**For Advance Online Publication papers:**

Reprinted by permission from The [the Licensor]: on behalf of Cancer Research UK:  
[Journal Publisher (e.g. Nature/Springer/Palgrave)] [JOURNAL NAME]  
[REFERENCE CITATION (Article name, Author(s) Name), [COPYRIGHT] (year  
of publication), advance online publication, day month year (doi:  
10.1038/sj.[JOURNAL ACRONYM])

**For Book content:**

Reprinted/adapted by permission from [the Licensor]: [Book Publisher (e.g. Palgrave  
Macmillan, Springer etc) [Book Title] by [Book author(s)] [COPYRIGHT] (year of  
publication)

**Other Conditions:**

Version 1.2

Questions? [customercare@copyright.com](mailto:customercare@copyright.com) or +1-855-239-3415 (toll free in the US) or +1-978-646-2777.


# ASCE Authorship, Originality, and Copyright Transfer Agreement

Publication Title: Journal

of Construction

Engineering and

Management

Manuscript Title/Number:

Stakeholder

Engagement in

Construction: exploring

corporate social

responsibility (CSR),

ethical behaviours and

practices. COENG-8119

Author(s) – **Names, postal addresses, and e-mail addresses of all authors**

**Dr William H Collinge, MACE (Mechanical, Aerospace, Civil Engineering), University of Manchester, Pariser Building, 76 Sackville Street, Manchester, UK. M1 7JR.**

## I. Authorship Responsibility

To protect the integrity of authorship, only people who have significantly contributed to the research or project and manuscript preparation shall be listed as coauthors. The corresponding author attests to the fact that anyone named as a coauthor has seen the final version of the manuscript and has agreed to its submission for publication. Deceased persons who meet the criteria for coauthorship shall be included, with a footnote reporting date of death. No fictitious name shall be given as an author or coauthor. An author who submits a manuscript for publication accepts responsibility for having properly included all, and only, qualified coauthors.

## II. Originality of Content

ASCE respects the copyright ownership of other publishers. ASCE requires authors to obtain permission from the copyright holder to reproduce any material that (1) they did not create themselves and/or (2) has been previously published, to include the authors' own work for which copyright was transferred to an entity other than ASCE. For any figures, tables, or text blocks exceeding 100 words from a journal article or 500 words from a book, written permission from the copyright holder must be obtained and supplied with the submission. Each author has a responsibility to identify materials that require permission by including a citation in the figure or table caption or in extracted text.

More information can be found in the guide "Publishing in ASCE Journals: Manuscript Submission and Revision Requirements" (<http://ascelibrary.org/doi/pdf/10.1061/9780784479018.ch05>). Regardless of acceptance, no manuscript or part of a manuscript will be published by ASCE without proper verification of all necessary permissions to re-use. ASCE accepts no responsibility for verifying permissions provided by the author. Any breach of copyright will result in retraction of the published manuscript.

## III. Copyright Transfer

ASCE requires that authors or their agents assign copyright to ASCE for all original content published by ASCE. The author(s) warrant(s) that the above-cited manuscript is the original work of the author(s) and has never been published in its present form.

The undersigned, with the consent of all authors, hereby transfers, to the extent that there is copyright to be transferred,

the exclusive copyright interest in the above-cited manuscript (subsequently called the “work”) in this and all subsequent editions of the work (to include closures and errata), and in derivatives, translations, or ancillaries, in English and in foreign translations, in all formats and media of expression now known or later developed, including electronic, to the American Society of Civil Engineers subject to the following:

- The undersigned author and all coauthors retain the right to revise, adapt, prepare derivative works, present orally, or distribute the work, provided that all such use is for the personal noncommercial benefit of the author(s) and is consistent with any prior contractual agreement between the undersigned and/or coauthors and their employer(s).
- No proprietary right other than copyright is claimed by ASCE.
- This agreement will be rendered null and void if (1) the manuscript is not accepted for publication by ASCE, (2) is withdrawn by the author prior to publication (online or in print), (3) ASCE Open Access is purchased by the author.
- Authors may post a PDF of the ASCE-published version of their work on their employers’ **Intranet** with password protection. The following statement must appear with the work: “This material may be downloaded for personal use only. Any other use requires prior permission of the American Society of Civil Engineers.”
- Authors may post the **final draft** of their work on open, unrestricted Internet sites or deposit it in an institutional repository when the draft contains a link to the published version at [www.ascelibrary.org](http://www.ascelibrary.org). “Final draft” means the version submitted to ASCE after peer review and prior to copyediting or other ASCE production activities; it does not include the copyedited version, the page proof, a PDF, or full-text HTML of the published version.



Exceptions to the Copyright Transfer policy exist in the following circumstances. Check the appropriate box below to indicate whether you are claiming an exception:

**U.S. GOVERNMENT EMPLOYEES:** Work prepared by U.S. Government employees in their official capacities is not subject to copyright in the United States. Such authors must place their work in the public domain, meaning that it can be freely copied, republished, or redistributed. In order for the work to be placed in the public domain, ALL AUTHORS must be official U.S. Government employees. If at least one author is not a U.S. Government employee, copyright must be transferred to ASCE by that author.

**CROWN GOVERNMENT COPYRIGHT:** Whereby a work is prepared by officers of the Crown Government in their official capacities, the Crown Government reserves its own copyright under national law. If ALL AUTHORS on the manuscript are Crown Government employees, copyright cannot be transferred to ASCE; however, ASCE is given the following nonexclusive rights: (1) to use, print, and/or publish in any language and any format, print and electronic, the above-mentioned work or any part thereof, provided that the name of the author and the Crown Government affiliation is clearly indicated; (2) to grant the same rights to others to print or publish the work; and (3) to collect royalty fees. ALL AUTHORS must be official Crown Government employees in order to claim this exemption in its entirety. If at least one author is not a Crown Government employee, copyright must be transferred to ASCE by that author.

**WORK-FOR-HIRE:** Privately employed authors who have prepared works in their official capacity as employees must also transfer copyright to ASCE; however, their employer retains the rights to revise, adapt, prepare derivative works, publish, reprint, reproduce, and distribute the work provided that such use is for the promotion of its business enterprise and does not imply the endorsement of ASCE. In this instance, an authorized agent from the authors' employer must sign the form below.

**U.S. GOVERNMENT CONTRACTORS:** Work prepared by authors under a contract for the U.S. Government (e.g., U.S. Government labs) may or may not be subject to copyright transfer. Authors must refer to their contractor agreement. For works that qualify as U.S. Government works by a contractor, ASCE acknowledges that the U.S. Government retains a nonexclusive, paid-up, irrevocable, worldwide license to publish or reproduce this work for U.S. Government purposes only. This policy DOES NOT apply to work created with U.S. Government grants.

I, the corresponding author, confirm that the authors listed on the manuscript are aware of their authorship status and qualify to be authors on the manuscript according to the guidelines above.

I, the corresponding author, confirm that the content, figures (drawings, charts, photographs, etc.), and tables in the submitted work are either original work created by the authors listed on the manuscript or work for which permission to re-use has been obtained from the creator.

I, the corresponding author, acting with consent of all authors listed on the manuscript, hereby transfer copyright or claim exemption to transfer copyright of the work as indicated above to the American Society of Civil Engineers.

---

Print Name of Author or Agent  
WILLIAM HENRY COLLINGE



Signature of Author of Agent

---

Date 30 MAY 2019

NOTE: If you do not wish to sign the form digitally, please print, sign, scan, and email (books) or upload (journals) the form. More information regarding the policies of ASCE can be found in Publishing in ASCE Journals at <https://doi.org/10.1061/9780784479018>

## TABLE OF CORRECTIONS 2

<b>Reviewer Comment</b>	<b>Correction to Script</b>	<b>Page &amp; Line numbers</b>
Figure captions document missing	Figure captions document uploaded	-
“Clearer explanation of contribution of paper in Abstract and Conclusions needed”	A revised Abstract and Conclusion is now provided that is clearer on contributions of the paper and how it is important for the academic community.	Abstract Conclusion

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65