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

DOI: 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):

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 providing relevant details, so we can investigate your claim.
Stakeholder engagement in construction: exploring corporate social responsibility (CSR), ethical behaviours and practices

**Abstract:** 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.

**Corresponding Author:** William Henry Collinge, Ph.D  
The University of Manchester  
Manchester, UNITED KINGDOM

**Corresponding Author E-Mail:** william.collinge@manchester.ac.uk

**Order of Authors:** William Henry Collinge, Ph.D

**Suggested Reviewers:**

**Opposed Reviewers:**

**Additional Information:**

<table>
<thead>
<tr>
<th>Question</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>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</td>
<td>Yes</td>
</tr>
<tr>
<td>Question</td>
<td>Answer</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>Are there any required permissions that have not yet been secured? If yes, please explain in the comment box.</td>
<td>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.</td>
</tr>
<tr>
<td>As follow-up to &quot;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. &quot;</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td>No</td>
</tr>
<tr>
<td>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.</td>
<td>No</td>
</tr>
<tr>
<td>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.</td>
<td>No</td>
</tr>
<tr>
<td>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</td>
<td>No</td>
</tr>
</tbody>
</table>
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.

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)?

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.

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.
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.

| No |

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.

| |

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.

| |

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.

| 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. |

To read more about how the JCEM considers each paper’s contributions please see the following Editor's Note.

| |

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

| No |
A single-region focus should be submitted as a Case Study. Descriptions of a Case Study can be found in [Publishing in ASCE Journals: A Guide for Authors](http://dx.doi.org/10.1061/9780784479018). Does your paper contain research that is focused on a single region?

<table>
<thead>
<tr>
<th>The board of JCEM encourages authors to make data used in the current study available to other researchers 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.</th>
<th>Data generated or analyzed during the study are available from the corresponding author by request.</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>No</td>
</tr>
<tr>
<td>If there is anything else you wish to communicate to the editor of the journal, please do so in this box.</td>
<td></td>
</tr>
<tr>
<td>When submitting a new and revised manuscript, authors are asked to include a Data Availability Statement 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.</td>
<td>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.</td>
</tr>
</tbody>
</table>
Stakeholder engagement in construction: exploring corporate social responsibility (CSR), ethical behaviours and practices

William Collinge

ORCHID: 0000-0003-3387-1649

Mechanical Aerospace & Civil Engineering

University of Manchester

E8 Pariser Building, 76 Sackville Street

Manchester M1 7JR

United Kingdom

william.collinge@manchester.ac.uk

Abstract

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.

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

Introduction

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

This paper aims to clarify stakeholder engagement in a construction context by revealing the multifaceted nature of CSR in action. It explores how stakeholder engagement is a complex entwining of responsibility, actions of multiple parties (e.g. lead contractor; subcontractor) and work package requirements, so that engagement is theoretically lifted for a construction
project setting. Through application of the complimentary frameworks of Greenwood (2007) and Lane and Devin (2008), the connections between CSR, ethics and stakeholder engagement comes into clearer focus. The paper serves a dual purpose of informing practitioners of the complexity of stakeholder engagement (to better inform the implementation practices) whilst illuminating the connection with CSR and responsible behaviours. The paper therefore follows the contention of scholars who argue that focused examination of practices is necessary to advance scholarship (c.f. Trevino & Weaver, 1999; Freeman, 1999; Friedman and Miles, 2002); the proposal of any practical recommendations from research having sound theoretical and conceptual foundations (e.g. Yang et al., 2011a; Smyth, 2008). The theoretically informed model is also informative and useful for the project management community as a basis for further research; stakeholder engagement being better understood and potentially managed in practice as a result.

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

**Stakeholder management in literature**

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

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

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

From a strategic management perspective, stakeholder engagement may be viewed as a mechanism for reducing conflict, encouraging innovation and facilitating spin-off partnerships (Yu and Leung, 2018). From an ethical perspective, it can be understood as a way for enhancing inclusive decision making and promoting equity (Yang et al. 2011a). Mathur et al. (2008) call for fresh approaches for understanding stakeholder engagement in construction so that concepts such as these can coalesce around sustainability in the built environment. The concepts identified by Mathur et al. (2008) align well with the work of Greenwood (2007) in her model of stakeholder engagement (discussed below), highlighting the multifaceted nature of the engagement concept.
In a recent practice focused paper, Yu and Leung (2018) explore how public engagement (PE) has emerged as a prerequisite for collecting stakeholders’ opinions to involve them in the decision making of construction development projects. Their study shows how different forms of power and interest influence final engagement outcomes (either directly or indirectly), illustrating the potential to advance stakeholder satisfaction for construction development projects. Also addressing practical issues, Yang et al. (2011b) formulate a typology of approaches for practitioner stakeholder engagement in construction from interviews and a questionnaire survey conducted in Hong Kong. The implication is that appropriate approach selection is an art requiring practitioners’ judgments (each approach having its’ strengths and limitations). Such work reminds us that stakeholder engagement is a practical activity, closely bound to forms of communication. This aspect of stakeholder engagement has been noted by scholars; Collinge and Harty (2014), for example, noting how in briefing work, stakeholders engage with design artefacts to interpret issues using personal cognitive frames of reference. Leung and Liang (2013) note how the unbalanced distribution of power interests on a project inevitably causes tensions between multiple stakeholders, often connected with various levels of communicative engagement on a project. The authors argue to include more representatives from different stakeholder groups in the decision-making process to enable active engagement. Understanding stakeholder relationships is potentially fruitful in construction as projects are characterised by multiple parties (e.g. contractors; subcontractors; consultants) coming together under various “terms of cooperation” (e.g. contractual; non-contractual) in different sets of circumstance (e.g. pre-construction design work; building phase work packages). However, it is a valid criticism that too many accounts of stakeholder management focus on attributes of organisations or stakeholders (i.e. stakeholder power, interest, influence) rather than the attributes of the relationship between organisations and stakeholders. This paper contends that understanding
the relationship between parties is important in appreciating how responsible behaviour and
stakeholder management is realised. Moreover, construction stakeholder management
scholarship generally takes more of a macro than a micro view: the individual work packages
of project management activity seldom providing a focus of attention despite their
significance in project management work.

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

These contributions indicate how closer understanding of the engagement concept requires
examination of engagement processes and outcomes of engagements. Such focused accounts
have been generally lacking in the construction project management domain, and as a result, this paper takes inspiration from work focusing upon engagement processes and the outcomes of engagement. In their work, Lane and Devin (2018) reference the work of Johnston (2010), who applied a process model approach for understanding stakeholder engagement, resulting in a typology of practice. The three baseline elements of Johnston’s (2010) model are antecedents, engagement relationship strategies and consequences (as discussed below). In her work Greenwood (2007) argues that engagement is not simply “corporate responsibility in action”, but is actually morally neutral, in that it does not follow that responsible treatment of stakeholders must follow engagement activity. Therefore, stakeholder engagement may be used in a moral or immoral way, but it is not necessarily either of these: “It may be a morally positive practice when it enables co-operation in the context of a mutually benefitting relationship. However, it may also be morally negative (immoral) practice used as a deceptive control mechanism when masquerading as corporate responsibility.” (p.320)

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

*Stakeholder Engagement and Social Responsibility*

The model of Greenwood (2007) (figure 1) brings into focus how stakeholder engagement may be considered a separate variable from the responsible treatment of stakeholders (labelled as “agency” on figure 1). Greenwood explores how there is a relation between levels of engagement and the responsible treatment of stakeholders, noting how stakeholder
engagement itself is a process (or set of processes) of communication, dialogue and exchange,

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

The construct of stakeholder agency is used as a proxy for the responsible treatment of stakeholders, which may also be considered a variable that can fluctuate. The four quadrants of the model (responsibility, paternalism, neoclassic and strategic) are defined in Table 1. The four quadrants are further sub-divided by a hypothetical “optimal” line, Greenwood contending that an optimal level exists for the constructs of engagement and moral treatment of stakeholders (following Wicks et al. 1999). Definitions of the segments (labelled A-H) are given in Table 2. The most widely known definition of positive stakeholder management practice, corporate social responsibility (CSR), occupies segment A of the model. The model indicates how stakeholder engagement may be understood in a variety of ways, such as a mechanism for consent; a mechanism for control; a mechanism for cooperation; a mechanism for enhancing trust, etc. The actions of an organisation towards stakeholders can theoretically be charted as variables on the model to clarify how actions relate to engagement and responsible treatment; such classifications of actions could essentially assist an organisation reflect on, improve and refine its’ stakeholder management actions. Although Greenwood does not mobilize or test the framework with any empirical data, she notes the model could be applied to different contexts to explore relations between parties, stating, “A model that proposes a probable relationship (between engagement and responsible treatment of stakeholders) has been provided. This model allows for the possibility of
corporate irresponsibility and offers a stepping stone for further theoretical and empirical exploration of this multifaceted relationship.” (p.325)

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

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

- Stakeholder engagement can be broken down into a series of tasks
- The sequencing and linkages between tasks are significant for stakeholder engagement
- Understanding stakeholder engagement as a process can assist in identification of “checks” and “balance points” for periodic review of events
- Reviewing engagement processes can provide a lens on the conduct of stakeholder engagement as part of an organisation’s CSR efforts
Whilst Lane and Devin’s (2018) work examines the operationalisation of stakeholder engagement, Greenwood’s theoretical model (2007) relates more to the consequences of that engagement. The paper takes forward insights from Greenwood (2002) and Lane and Devin (2018), contending they are relevant for a construction project context. Of particular note are the following points:

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

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

**Research Method**

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

Empirical data was collected from a case study project: three sets of interviews with hospital managerial and AEC (architecture, engineering, construction) company staff being collected, transcribed and analysed in a thematic manner. To provide as rich a picture as possible regarding the different incidents of stakeholder engagement occurring, interviewees were interviewed on 3 separate occasions, each successive interview focusing in more detail on
incidents of stakeholder engagement. Several vignettes of stakeholder engagement practice were identified from the first round of interviews, and these were then followed up in a second round of interviews.

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

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

The data itself was the opinion and recollections of interviewees regarding stakeholder engagement work in action on project work tasks. To assess the data and facilitate its reference against the framework, excerpts of data were coded against the definitional concepts in Table 1 and 2. Stakeholder engagement practices could then be related to the framework concepts based upon the frequency/intensity of actions indicated and strength of opinion regarding the agency factors (i.e. responsible treatment of stakeholder) conveyed by interviewees. The researcher related data to the framework himself, personal judgement coming into play at this stage of the analysis. Frequently, unequivocal opinions could be easily matched to the concepts, such as, “the subcontractors didn’t speak to the client first, so we all got the blame for the mess created” (Irresponsible behaviour).

At other times, opinions were more subtle, requiring the researcher to interpret data carefully against the framework concepts. Key to this methodological approach was identification of stakeholder engagement actions (or lack of actions) and responsible behaviour being displayed in order to relate incidents to the framework of Greenwood (figure 1). Different project work packages and different phases of project work provided key entry points in order to examine and analyse what was going on in stakeholder engagement terms; the researcher placing each vignette on to the model at different stages of the construction project cycle (figures 2-5). Four distinct versions of the model are presented for different phases of work (figure 2 to 5: pre-construction; commencement of work; subcontractor engagement; completion); these phases roughly corresponding to stages 3/4, 5 and 6 of the RIBA PoW (2013). These successive models clarify the shifts and changes in stakeholder engagement work through the course of a project as different work packages evolve and develop. The
model highlights the attributes of the relationship between parties in CSR and ethical terms that are triggered by stakeholder engagement activities. Whilst this approach is open to critique and criticism, it does demonstrate how the model can start to be used to conduct useful analysis of stakeholder engagement work: the model retaining its’ flexibility for further researcher experimentation and refinement.

Vignette 1: Construction of a new fire escape

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

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

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

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

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

Vignette 2: Waiting room / Renal unit ramp

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

Such positive work began with pre-construction discussions: a long lead in period and sequence of works being explained to hospital staff by the contractor, with anticipated noise levels and disruptive activities being explained. Concerns of hospital staff were discussed openly (such as dialysis treatment times); the two work projects to be executed simultaneously (the mezzanine floor construction and external ramp for wheelchair access to the Unit). Therefore, the vignette may be initially located at quadrant A/B (figure 2): an optimal level of engagement and responsible treatment being achieved.
With the commencement of construction work, the lead contractor took immediate actions to address stakeholder needs. For example, to mitigate dust dispersal, windows to one side of the unit were sealed shut and to protect patient privacy, mirror film was placed on the windows so that contractors could not see patients, and in the event of hot and uncomfortable weather, fans were supplied to patients and staff as windows would be closed. The interviewed Client Relations Manager explained how stakeholder management work very much depends upon the construction work task at hand,

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

A variety of client relations tools were used during this construction task (e.g. notices; handouts; comments cards), contributing to effective stakeholder management work. Here we see stakeholder engagement remaining responsible and balanced, the contractor needing to remain in close communication with the client due to proximity to patients and services (figure 3). A number of different subcontractor teams then entered the hospital work zones, and whilst some spoke directly with staff and visitors, others preferred not to. For the majority of hospital staff interviewed, no distinctions were made between the various construction teams: they were all viewed as one and the same entity. In terms of stakeholder engagement in construction, this is significant as such a view may translate into both shared praise and shared blame for multiple parties working on the same task (as will be observed later). As work commenced on the waiting room/renal ramp, there was more praise than blame to be shared amongst the contractor teams, although occasionally subcontractors had to be cautioned not to plug in and activate fans without staff permission.
Therefore, for the subcontractor engagement phase (figure 4), the vignette shifts to a position between segment C (limited paternalism) and segment D (strong paternalism) as stakeholders were generally treated responsibly, but engagement decreased and was occasionally sub-optimal (i.e. subcontractors not engaging with hospital staff to verify actions). The actions of the construction team may be described as fluctuating paternalistic, in that engagement was occasionally removed from responsibility. For example, the distribution of fans to patients (done without prior engagement with hospital staff), could be construed as limited paternalism (C); whilst plugging and switching on the fans without stakeholder permission would be adjudged as strong paternalism (D). This vignette highlights the complexity of the engagement construct when multiple parties are engaged on the same construction project work task, and how the client may not make distinctions between the various organisational entities employed. Moreover, it illustrates how actions on the ground can be interpreted as responsible or irresponsible behaviour. As construction work concluded, engagement increased again as communications resumed with the hospital and the work was signed off as satisfactory (figure 5).

**Vignette 3: Electrical wiring in corridor**

Construction work often results in supplementary activities for completion, such as services upgrades, movements of equipment, refurbishments and re-signage. The next two vignettes each relate to such work. To install some electrical wiring in a section of the hospital following machinery upgrade work, a subcontractor team took the initiative and opted to execute the work at night to minimize disruption to hospital staff and visitors. As a result, the subcontractors decided not to engage or consult stakeholders about this task as it appeared simple and straightforward to them. The subcontractors accessed the corridor lighting spaces using step-ladders, and having completed their task, left the hospital by early morning. Hospital staff returning to work in the morning found the corridors dirty with dust and
material offcuts, necessitating a deep clean of the corridors, with consequent knock-on effects to personnel and service movements. A complaint to the lead contractor resulted, which was passed onto the subcontractor team. The subcontractors subsequently apologised to both lead contractor and hospital, but the incident soured relations between all parties for a short period.

This vignette initially appears on figure 4 (subcontractor engagement) in segment F as an example of low engagement/low stakeholder agency as s task completed in the interests of the subcontractor team without consultation with the hospital client stakeholders (or lead contractor). The subcontractors actually misjudged the impact of their work on the hospital, although they believed themselves to be acting responsibly in the interests of the hospital.

The vignette highlights several issues of note. Firstly, the use of multiple subcontractor teams means direct engagement with the client is not always possible (or considered necessary) by those doing the work. As a result, subcontractors may make decisions and take actions without wider consultation. Secondly, multiple stakeholders can be negatively affected by the actions of one team of subcontractors; the lead contractor (with managerial responsibility for subcontractors) shouldering some blame for the incident (contractual arrangements binding multiple organisations together in stakeholder management terms). At task completion (figure 5) engagement had necessarily increased due to the complaints, with the construction team acting more responsibly toward the hospital stakeholders.

**Vignette 4: Laundry trolleys overflow**

Similar in nature, but relating to pre-construction work, is the following vignette. Anticipated construction work to heating and boiler areas resulted in contractors moving fully loaded laundry trolleys into normal hospital service corridors from the plantrooms (often used as quick storage space for hospital services (e.g. laundry). As a result, the laundry trolleys
blocked and impeded staff, patient and service movements within the hospital, causing disruption and inconvenience. Following several complaints, the contractors moved the trolleys to an adjacent building following further negotiations with hospital staff. Despite the initial delay, engineering work itself was completed to plan without further problems. The vignette may be located in segment F of the stakeholder engagement model (figure 2) as behaviour outside the accepted norm: the contractors not engaging with staff prior to moving the trolleys as they did not consider their actions as problematic. As work commenced on the plantroom, a compromise regarding the trolleys had been identified, and as a result, stakeholder engagement and agency improved (figures 3-5). By completion, the contractors had redeemed themselves in the views of the hospital, although negative recollections of the incident lingered in the memory of those interviewed. Both the laundry trolleys and electrical wiring vignettes indicate another reality of construction stakeholder management: that supplementary activities preceding/resulting from the main construction project tasks also have a potential to impact stakeholder relations and perceptions of companies.

Vignette 5: Secondary glazing

The final vignette relates to installation of secondary glazing across two hospital wings containing live clinical areas and consultation rooms. This was a challenging project task in terms of stakeholder engagement; each wing being 5 floors in height, containing a multiplicity of patient rooms, medical services and staff educational areas. Work required the transportation of equipment and materials to the hospital on large trucks, with consequent effects for hospital services and transportation links. These issues were identified at pre-construction stage, with the lead contractor communicating closely with the hospital (responsible behaviour: figure 2). The lead contractor Client Relations Manager explained initial engagement work,
“Our priority was to ensure the community knew the road would be busier with our construction traffic, so I walked around and took a list of all the businesses and residents. We did 120 letter drops informing them of the upcoming work.”

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

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

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

With commencement of construction, responsible behaviour continued, although intensity of stakeholder engagement work decreased; each hospital floor area needing a minimum of 3 visits to complete measuring, fitting and installation of the glazing, with dialogue between parties being critical at every stage. Stakeholder engagement remained responsible throughout the construction cycle for this vignette, engagement activity increasing again at
the end of the work package (both NHS and construction interviewees giving positive recollections). However, risks were present throughout the cycle of this vignette. For example, the request from a bank for favourable treatment on their terms could have potentially shifted the vignette from A (responsible behaviour) to B (anti-capitalism).

However, the lead contractor resisted this request: the demands of the bank for alternative construction transportation potentially compromising the primary objectives of the contractor on the project. Similarly, subcontractor engagement continued to be appropriate through the work package (limited paternalism: figure 4); the possibility of it shifting remaining real, but held in check through effective communication with the lead contractor and correct execution of tasks.

Discussion

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

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

The unique nature of stakeholder engagement work in construction also needs to be re-emphasized as the paper identified how associations between engagement action and consequence in CSR terms are important. For example, the use of subcontractor teams is a common occurrence on projects, but the impact of subcontractor engagement is seldom recognised. Whilst subcontractors often have no immediate link with the client, the use of subcontractors immediately binds the lead contractor with other parties on the construction side in stakeholder management terms; so that poor practices have repercussions for more than one organisation (the converse may also be said to be true). So, whilst stakeholder engagement may lie with a single organisation at some stage of the project lifecycle, responsibility for actions will be shared amongst the construction project team: the client being unlikely to make distinctions between parties.
Greenwood (2007) argues that stakeholder engagement is morally neutral practice, in that it may be used in a moral or immoral way, but is not necessarily either of these (although having the potential to be both). In construction, stakeholder engagement may be morally positive when it enables cooperation through a mutually beneficial relationship. For example, the subcontractor initiative to provide fans to patients was mutually beneficial for several stakeholder groups. Conversely, engagement may be morally negative (immoral practice) when used as a deceptive control mechanism when masquerading as corporate responsibility. There were no clear examples of this from the hospital case study projects.

What is clear is that in construction, stakeholder engagement may be high, but not result in any tangibly positive responsible treatment of stakeholders. This is because stakeholder engagement is essentially morally neutral, requiring further actions in order to have any potentially positive effect. It can also be noted that stakeholder engagement may be low, but stakeholder interests may be being served (by efficient subcontractor teams completing work effectively). Theoretically, the insights also inform stakeholder management in construction scholarship generally, especially in relation to CSR, ethics and relations between parties.

Practical Insights

The insights of the paper align with the argument of Missonier and Loufrani-Fedida (2014) that projects are characterized by dynamic and emergent relationships between stakeholders, where relations between parties co-evolve with project work trajectories. In several of the vignettes, the Client Relations Manager provided a consistent line of communication between constructors and stakeholders and this had positive effects on relations between parties. Employing an individual for stakeholder work has obvious resource implications for the project, but the lead contractor judged this work important enough to justify the cost. It is interesting to note that in the vignettes where engagement work drifted into negative conceptual quadrants (electrical rewiring/laundry trolleys), that extra level of communication
Communication channels with stakeholders (i.e. regular meetings; letter-drops; posters) are also intrinsic mechanisms of engagement, so their importance should not be underplayed in the overall assessment of what works effectively on projects. It is also clear from the research evidence gathered that although the dominant idea in the literature is that a Project Manager performs stakeholder management work (c.f. Newcombe, 2003; Chinyio and Olomolaiye, 2010; Walker et al., 2008), it is evident that on large public sector projects (e.g. hospitals) a different approach is justified.

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

However, stakeholder opinion can change over time, with a positive opinion of one manager not necessarily being shared with others. Rowan (2000) argues that organisations should fulfil their stakeholder obligations by showing the greatest respect for persons, although there will be a hierarchy of claims with corresponding duties. The empirical insights validate this contention, as when responsible behaviour was lacking (vignette 3 and 4), it was recognised
and rectified. In the secondary glazing vignette, lead contractor engagement with the bank was morally responsible, but the decision to reject bank demands for re-routing construction traffic was made by balancing competing stakeholder needs (which are inevitably bound to project demands) to reach a decision that prioritised hospital client needs. This is not surprising, but if we focus on the attributes of the relationship between the hospital and bank through the vignette, it can be observed how the bank was always treated responsibly (quadrant B, figure 2), from initial engagement, dialogue and rejection of demand through to physical demonstration of truck movements. Therefore, the variables of stakeholder agency and engagement levels can fluctuate as a construction task evolves. Here we see clearly how stakeholder engagement in construction is an unfolding process defined by the relationship between parties.

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

That stakeholder engagement may be considered an evolving, ongoing process with antecedents (e.g. strategic definition/business case), with a series of “steps” providing a framework for potential “checks and balance points” (Lane and Devin, 2018, p.278), increases the chance for problem identification/rectification. Project work packages offer an obvious possible checkpoint for reviewing what is happening, as do entry of subcontractor
teams to a construction site. Periodic review of stakeholder engagement work on a project is certainly beneficial for all parties concerned.

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

Methodological Insights

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

Whilst the approach of the paper is open to criticism and critique (data being drawn from a single hospital project; a particular theoretical lens being used; researcher judgement being used to relate empirical data to conceptual framework), the flexibility of the model for exploring stakeholder engagement and CSR issues should be reiterated. The model is potentially adaptable to multiple engineering management contexts, and could be evolved from a qualitative tool into a quantitative or measures based model. In this paper, no
formulae or calculations were used, but such applications are feasible and possible. For example, the actions of individuals or utility of certain stakeholder management tools could conceivably be placed on the model to assess their engagement and agency credentials. One particular area for exploration is BIM (Building Information Modelling). Whilst there is potential for using BIM technologies for stakeholder management for facilities management on existing buildings, this is seldom evident, as noted by numerous scholars, including Volk at al. (2014), Ghaffarianhoseini et al. (2017), Parn et al. (2017), He et al. (2017) and Zou et al. (2017). An in-depth exploration of how stakeholder management issues associated with different construction tasks may be mobilized around an evolving digital model is beyond the scope of this paper. However, it is reasonable to argue that proactive use of BIM for each of the vignettes described could potentially have made a positive difference; a more considered understanding of how construction activity could impact hospital operations potentially accruing from BIM use.

Conclusion

The paper demonstrated how it is possible to theorize a more complex relationship between stakeholder engagement and agency (i.e. the ethical, responsible treatment of stakeholders) in a construction project context. The models of Greenwood (2007) and Lane and Devin (2018) provided a framework and template upon which stakeholder engagement in construction could be usefully cross-referenced and understood in its' own way. When empirical data was applied to the models, the unique nature of stakeholder engagement in construction came into clearer focus; stakeholder engagement being a complex, entwining process of responsibility, organizational action and work package requirements where stakeholder engagement and agency may be understood as separate variables that result in shifts between responsible, paternalistic, neoclassic and strategic behaviours. Examination of the vignettes also affirmed
that stakeholder engagement is an evolving process, where it is possible to identify, track and monitor the impact and effect of engagement activity on the corporate social responsibility (CSR) credentials of AEC companies engaged in construction project work. Such a micro view of stakeholder engagement in action brings a fresh perspective to the impact of daily project work activities on the CSR performance of companies engaged on a project.

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

A number of practical and methodological insights were also made by the paper. The separate steps of stakeholder engagement were identified as well as execution of these steps (through construction project work package activities). The recognition that stakeholder engagement is an evolving process recommends the use of periodic reviews of engagement activity (perhaps pivoting around project work packages) to ensure the CSR strategic objectives of organisations are aligned to stakeholder engagement work actually occurring. That stakeholder engagement work in construction may be understood as variables on scales of axes (relating to stakeholder engagement and stakeholder agency) was a further contribution of the paper; the methodological opportunities for future work being open for future exploration.
By modelling and theorizing the implementation of stakeholder engagement in construction, the paper makes a contribution to an area of stakeholder management scholarship that is in need of more attention. The framework of analysis itself provides a potential referential tool for AEC companies and contractors assessing stakeholder management issues ahead of and during project work, so that stakeholder engagement is better understood as an evolving, complex process with shifting and multiple inter-organisational effects. The findings point towards further applied research to explore and expand understanding and use of the engagement concept in different engineering and project management contexts.

**Data Availability**

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).

**Acknowledgements**

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

**References**


| 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. |

Table 1: stakeholder engagement/agency quadrant definitions (see Greenwood, 2007, p.322)
<table>
<thead>
<tr>
<th>TITLE</th>
<th>STAKEHOLDER ENGAGEMENT</th>
<th>STAKEHOLDER AGENCY</th>
<th>RELATIONSHIP BETWEEN STAKEHOLDER ENGAGEMENT AND STAKEHOLDER AGENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Responsibility (traditional corporate social responsibility)</td>
<td>Comprehensive engagement of stakeholders</td>
<td>Acts in the interest of legitimate stakeholder</td>
</tr>
<tr>
<td>B</td>
<td>Anti-capitalism</td>
<td>Extensive engagement with stakeholders</td>
<td>Acts in the interest of all stakeholder including illegitimate</td>
</tr>
<tr>
<td>C</td>
<td>Limited Paternalism</td>
<td>Little stakeholder engagement as determined by the company</td>
<td>Acts in the interest of legitimate stakeholder as determined by the company</td>
</tr>
<tr>
<td>D</td>
<td>Strong Paternalism</td>
<td>No stakeholder engagement as determined by the company</td>
<td>Acts in the interest of legitimate stakeholder as determined by the company</td>
</tr>
<tr>
<td>E</td>
<td>Market</td>
<td>Little stakeholder engagement in response to market demand</td>
<td>Does not act in the interest of legitimate stakeholder</td>
</tr>
<tr>
<td>F</td>
<td>Illegal (outside the boundary of the law or accepted custom)</td>
<td>No stakeholder engagement as determined by agents in control of the company</td>
<td>Does not act in the interest of legitimate stakeholder</td>
</tr>
<tr>
<td>G</td>
<td>Reputation / Legitimacy</td>
<td>Engaging with legitimate stakeholders to further shareholder interests</td>
<td>Appears to act in the interest of all stakeholders</td>
</tr>
<tr>
<td>H</td>
<td>Irresponsibility (bad faith)</td>
<td>Extensive engagement without accountability or responsibility towards stakeholders</td>
<td>Appears to act in the interest of only influential stakeholders</td>
</tr>
</tbody>
</table>

Table 2: stakeholder engagement model segments (Greenwood, 2007, p.323)
Figure 1: model of stakeholder engagement (Greenwood, 2007, p.322)
Figure 2: pre-construction: positioning of vignettes

A – Responsibility (CSR)  
B – Anti-capitalism  
C – Limited Paternalism  
D – Strong Paternalism  
E – Market  
F – Illegal (outside custom)  
G – Reputation / Legitimacy  
H - Irresponsibility

1 – Fire Escape construction  
2 – Waiting room/renal ramp  
3 – Wiring in corridor  
4 – Laundry trolleys overflow  
5 – Secondary glazing
Figure 3: commencement of work: positioning of vignettes

1 – Fire Escape construction
2 – Waiting room/renal ramp
3 – Wiring in corridor
4 – Laundry trolleys overflow
5 – Secondary glazing
Figure 4: subcontractor phase: positioning of vignettes

1 – Fire Escape construction
2 – Waiting room/renal ramp
3 – Wiring in corridor
4 – Laundry trolleys overflow
5 – Secondary glazing
Figure 5: completion: positioning of vignettes of practice

1 – Fire Escape construction
2 – Waiting room/renal ramp
3 – Wiring in corridor
4 – Laundry trolleys overflow
5 – Secondary glazing
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
This Agreement between University of Manchester -- William Collinge ("You") and Springer Nature ("Springer Nature") consists of your license details and the terms and conditions provided by Springer Nature and Copyright Clearance Center.

License Number 4631551376620
License date Jul 17, 2019
Licensed Content Publisher Springer Nature
Licensed Content Publication Journal of Business Ethics
Licensed Content Title Stakeholder Engagement: Beyond the Myth of Corporate Responsibility
Licensed Content Author Michelle Greenwood
Licensed Content Date Jan 1, 2007
Licensed Content Volume 74
Licensed Content Issue 4
Type of Use Journal/Magazine
Requestor type publisher
Publisher American Society of Civil Engineers
Format print and electronic
Portion figures/tables/illustrations
Number of figures/tables/illustrations 3
Will you be translating? no
Circulation/distribution <501
Author of this Springer Nature content yes
Title of new article Stakeholder engagement in construction: exploring corporate social responsibility (CSR), ethical behaviours and practices
Lead author William H Collinge
Title of targeted journal Journal of Construction Engineering and Management
Publisher American Society of Civil Engineers
Publisher imprint ASCE
Expected publication date Dec 2019
Portions Table 1 (page 319) Table 2 (page 323) Figure 1 (page 322)
University of Manchester  
Pariser Building  
76 Sackville Street  

Requestor Location  
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, worldwide 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 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:

<table>
<thead>
<tr>
<th>Scope of Licence</th>
<th>Duration of Licence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post on a website</td>
<td>12 months</td>
</tr>
<tr>
<td>Presentations</td>
<td>12 months</td>
</tr>
<tr>
<td>Books and journals</td>
<td>Lifetime of the edition in the language purchased</td>
</tr>
</tbody>
</table>

- **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.
Ownership of Rights

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

Warranty

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

Limitations

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

Termination and Cancellation

1. Licences will expire after the period shown in Clause 3 (above).

2. Licensee reserves the right to terminate the Licence in the event that payment is not received in full or if there has been a breach of this agreement by you.

Appendix 1 — Acknowledgements:

For Journal Content:
Reprinted 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)

For Advance Online Publication papers:
Reprinted by permission from [the Licensor]: [Journal Publisher (e.g. Nature/Springer/Palgrave)]
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. “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 reuse 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

<table>
<thead>
<tr>
<th>Reviewer Comment</th>
<th>Correction to Script</th>
<th>Page &amp; Line numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Figure captions document missing</td>
<td>Figure captions document uploaded</td>
<td>-</td>
</tr>
<tr>
<td>“Clearer explanation of contribution of paper in Abstract and Conclusions needed”</td>
<td>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.</td>
<td>Abstract Conclusion</td>
</tr>
</tbody>
</table>

Click here to access/download: Response to Editors/Reviewers Comments; TABLE OF CORRECTIONS 2.docx