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Title	The UK Private Housebuilding Sector: Social Media Perspectives
Туре	Article
URL	https://clok.uclan.ac.uk/34021/
DOI	https://doi.org/10.1108/IJHMA-05-2020-0051
Date	2020
Citation	Craig, Nigel, Pilcher, Nick, MacKenzie, Rebecca and James, Boothman (2020)
	The UK Private Housebuilding Sector: Social Media Perspectives.
	International Journal of Housing Markets and Analysis. ISSN 1753-8270
Creators	Craig, Nigel, Pilcher, Nick, MacKenzie, Rebecca and James, Boothman

It is advisable to refer to the publisher's version if you intend to cite from the work. https://doi.org/10.1108/IJHMA-05-2020-0051

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The UK Private Housebuilding Sector: Social Media Perspectives

Journal:	International Journal of Housing Markets and Analysis
Manuscript ID	IJHMA-05-2020-0051.R1
Manuscript Type:	Research Paper
Keywords:	Private housebulding sector, Quality, Social media, Ombudsman, Customer satisfaction, Defects

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The UK private housebuilding sector: Social media perspectives

Introduction

In 2019 the UK construction sector was valued at over £41Bn; constituting 25% of the total UK construction industry, with 21% of this amount being private housebuilding. This created 196,089 new housing units across the UK in 2018 (Rhodes, 2019), although this figure remains below UK Government targets. Most companies make healthy profits, and annual accounts of the top ten housebuilders from 2005/06 to 2017/2018 show profit margins ranging from 13.29% to 24% in 2005/06 and all but one housebuilder making yearly profits from 2013 – 2018 (e.g. Branson, 2013, Gardiner, 2019). Arguably, housing contractors should be keen to improve their reputations (Wilkinson, 2014) and build quality. Indeed, private sector competitiveness has been the underpinning ethos of UK government policy for the last 40 years (ef.cf. Hayek, 1980) and claimed by many Government reports (e.g. Latham, 1994; Egan, 1998; Barker, 2004) to increase quality and value.

Yet, despite some Housebuilding Federation (HBF) surveys and results since 2000 showing improvements, much criticism of the sector exists (Baldry, 1997), and customer perceptions of end product quality are low, as illustrated by the recent 2016 All-Party Parliamentary Group (APPG) report. Buyers of private houses have been left in tears (Sommerville & McCosh, 2006), experiencing severe stress from numerous faults (Craig, 2007) in what is commonly their largest lifetime purchase (Lorentzen, 1996). Market and Opinion Research International Ltd (MORI) and Home Builders Federation (HBF) annual surveys since 2000 show overall dissatisfaction with new-build homes and many defects reported. This situation is exacerbated by the absence of protective legislation, with newly built homes being exempt from the Sales of Goods Act of 1979 act-(Sales of Goods Act, 1979 (HMSO, 1994)). Further, many instruments ostensibly intended to assure quality, such as the Five-Star builders rating scheme, are used strategically by the housebuilding sector as marketing tools, and are heavily biased (Boothman et al.,n, Craig & Somerville, 2018). These fail to give the same certification and guarantee of quality that exists through regulatory structures such as those elsewhere in the world (e.g. Singapore (Pheng and Premnath, 2019)). Overall therefore, despite receiving media attention in programmes such as ITV Tonight's 'New Build Nightmares?' (ITV, 2017), individual customers have struggled to publically express views.

However, the explosion in social media offers customers new outlets, and Facebook can reach wider and larger audiences than traditional media (Chu & Kim, 2011). Facebook forums allow instant display of comments, and users can connect with others to share experiences, and gain advice (Reid & Duffy, 2018). This paper first reviews key literature around quality and customer perceptions of the UK private housebuilding sector. It then presents and thematically analyses (Braun & Clarke, 2006) 147 comment posts gathered from nine Facebook forums under themes of: safety; standards; quality; workmanship; customer service; finance and money; advice; NHBC; ombudsman and; page closures. Results corroborate the picture of poor quality in UK private housebuilding. Significantly, the novel use of social media forum comments provides a raw and often visceral picture of frustration, anger, and feelings of neglect. It is recommended such data be harnessed by official bodies and by the 'new home ombudsman' the UK Government aims to establish in 2020 (Barker, 2020) to help address the performance issues experienced.

Quality, reputation, and customer perceptions of UK private housebuilding

Despite its significancet benefits to the economy¹, the UK construction industry has continually battled with negative public perceptions, and has for decades faced issues of high cost, low quality and of poor health and safety (Emmerson, 1962; Ball, 1988; Boothman et al., 2018), with Turin's (1969) noting that "construction has an image synonymous with high cost, low quality, chaotic working practices and a poor health and safety record" still resonant today (e.g. Ramezany, 2017). The Industry's low self-esteem and generally poor client relations (Farmer, 2016, p.g 40) reinforce this. Negative public perceptions of the industry stem from building failures, quality issues, workforce accidents and fatalities, increases in cost and time, low professionalism, low productivity, and environmentally hazardous and disruptive practices (Bodapati & Naney, 2001). The industry appears resistant to change, with some noting it lacks innovative thinking (Reichstein et al., 2005), and others its failure to integrate technology effectively (Ramezany, 2017). The stereotype of the 'cowboy' builder, i.e. someone who is "incompetent, dishonest and a tax evader" (Proverbs et al., 2000, p. 74) remains widespread, perennially haunting the industryry for many years (Turin, 1969; Haupt & Harinarain, 2016). Construction industry reports (notably Latham 1994; and Egan, 1998) do highlight the need to modernise to improve quality, efficiency, and thus the industry's reputation. However, such reports only commonly identify issues and fail to provide any overall strategy for change. As Proverbs et al. (2000) note, the aim of enhancing the reputation of the industry by improving quality and efficiency is common, but has not translated into practice.

QElements such as quality isare key to improving the industry and, critically, play a fundamental role in customer expectations. Given the sizeable investment in a new-build home by a customer, it is understandable high levels of quality are expected (Parasuraman *et al.*, 1985). Quality is measured by the gap between customers' expectation levels prior to receiving the product, and the actual expectation customers' have on receiving it (Sommerville *et al.*, 2012). Since Aristotle, quality has been considered as "indicating the goodness of an object" (Shewarth, 1931, p.37). With buying a new build home, customer expectations are set by the contractor by showcasing the prospective property via the use of a 'show home', because ultimately the home builder is the client and it is they therefore that set the specification of the new home, not the home buyer (Craig, 2007, p.g 2). Yet, 'show homes' are often furnished with premium high quality fittings and furnishings, and any failure to meet this high quality in the purchased final product can result in customer dissatisfaction (Georgiou *et al.*, 1999). Contractors, perhaps understandably, present standards within show homes that are unlikely to be met, a situation encapsulated by Farmer (2016, p.g 16) as being that "what is promised regardless of the challenge, is often not delivered".

Continuous monitoring by the UK government, the NHBC, and the HBF reveal starkly negative customer satisfaction. For example, a recent NHBC report found 99% of new build property owners reported snags or defects, and 34% found more problems than originally expected (NHBC, 2019). Of concern is both the sheer volume of these defects, and, importantly, their range and severity, "from leaky ceilings to holes in the ground" (Clements & Lewis, 2019, para. 1npg). Notably, although previous research has suggested "the house price will generally reflect the quality an overall service received" (Craig, 2007, p.g 47), it is increasingly apparent that even a premium price does not guarantee quality. Although anecdotal, this is evidenced by some new homeowners finding 700 defects in a new Persimmon £280,000 house (Forsyth & Sandhu, 2019). Similarly, by Clark's (2005) reports of faults with Charles Church homes, and by a customer's experience of finding fifty faults, some serious, in a £310,000 Barrett Home (Forsyth & Sandhu, 2019, npg. cf.cf. Barrie, 2007).

In the mainstream media, such poor quality and attention to detail is frequently reported (e.g. Curtis, 2011). Murray (2005, p.g 10) is quoted as saying "House builders just don't care" and more

¹ As noted above, housing has recently been found to be worth £41billion in revenue; as a whole the construction sector created £117 billion in revenue in 2018 (Rhodes, 2019)

recent news, notes "the builder Persimmon lacks minimum house standards" (BBC, 2019, para. 1 npg), with many new build homes lacking or incorrectly installing fire-stopping cavity barriers or having them installed incorrectly (BBC 2019). The extent and scale of defects is extreme, one owner, having her new Linden home deemed inhabitable by the NHBC, was still paying monthly bills and her mortgage (Deeks, 2019). A key issue is the many stages defects can be established and then impact later without any possibility of correction. For example, defects resulting by the site team will equate to increasing numbers and severity of defects at the handover stage (Wilkinson, 2014).

Regarding compensation and customer rights, although the Sales of Goods Act (1979 (HMSO, 1994)) does not protect house-buyers, certain guarantees are claimed to exist. The NHBC provides a 10 year warranty called Buildmark, and the Five-Star Builders scheme claims to give customers reliable housebuilder ratings before purchase (Boothman, et al., Craig & Somerville, 20182). Under the Buildmark scheme, housing contractors provide warranties for the first two years, agreeing to rectify any defects not resulting from wear and tear or lack of maintenance, with the NHBC providing homeowners with an independent resolution service and guarantee (NHBC, 2020). Once this two-year period ends, the NHBC provides eight further years of protection for homeowners if contractors fail to meet NHBC requirements, but this is commonly from a technical viewpoint only. The homebuyer is exposed to many functional aspects (how the house looks and feels) although these functional items tend to be ignored (Craig, 2007, p.g 46). Yet, the success of the Buildmark scheme is debatable. Some customers have complained, although relatively few published cases exist. Yet, this lack of published cases is often because the NHBC enforces homeowners to sign non-disclosure agreements, preventing them from talking to the media and even their neighbours about any issues experienced (Ruddick, 2017). This both suggests the NHBC recognises the negative impact such perspectives could have, and also that dissatisfied homeowners have little ability to relate their experiences. Further, the Five Star Builders scheme intended to give customers a rating of their housebuilder before-they buying, is strategically implemented by the industry inas a marketing tool. By drawing on results gathered at particular stages in the house buying process, customers receive a biased, and overly favourable impression, of the housebuilder (Boothman, Craig & Somerville, et al., 2018)

The ultimate impact of all the above on the industry is a negative one. This subsequently impacts on industry perceptions by those considering employment, who often conclude it is not a "desirable career path" (Sargent, 2020, introductionnpg). There is a consequent significant skill shortage, and low productivity which contributes towards poor workmanship (Farmer, 2016, p.g 16). This is despite government demand for homes targeting 300,000 new build homes a year by the mid-2020s (Sargent, 2020). Such initiatives as the Considerate Constructors Scheme (CCS), founded in 1997, have arguably had limited impact given—the continually emerging negative reports (e.g. Boothman et al., Ramezany, 20187). The industry therefore would appear impervious set to be able to changeontinue regardless, continuingand to build new homes often dangerously low in quality, about which the public have little opportunity to commentspread widespread word of mouth about. That is, until the advent of social media.

Recent years have seen an explosion in social media platforms such as Facebook, Instagram and Twitter, with monthly active Facebook Users recently topping 2.5 billion worldwide (Statista, 2020). Social media channels of communication are the focus of much research in the area of marketing (e.g. Arora et al., 2019), with published literature ranging from areas such as attempting to engage fans of football clubs (Vale & Fernandes, 2018) to strategic marketing of the Sicilian wine industry (Galati et al., 2017). Social media is considered to have a wider reach and greater impact than traditional media (Chu & Kim, 2011), something which will increase over time, particularly with decreasing sales of traditional media such as newspapers (Greenslade, 2009). In the context of housebuilding, some have noted social media's potential to propel the discontent of new homeowners straight into the public domain, highlighting that private housebuilders must take quality seriously

(Gardiner, 2017). Yet, to date, social media comments remain little researched in relation to the construction sector, despite the fact that housing is a key example of a product with high consumer involvement.

Data: sources and approaches to collection and analysis.

Recent years have seen an explosion in social media platforms such as Facebook, Instagram and Twitter, with monthly active Facebook Users recently topping 2.5 billion worldwide (Statista, 2020). Social media channels of communication are considered to have a wider reach and greater impact than traditional media (Chu & Kim, 2011), something which will increase over time, particularly with decreasing sales of traditional media such as newspapers (Greenslade, 2009). In the context of housebuilding, some have noted social media's potential to propel the discontent of new homeowners straight into the public domain, highlighting that private housebuilders must take quality seriously (Gardiner, 2017). Yet, to date, social media comments remain little researched.

In this paper we present and discuss a combined content analysis (Morgan 1993) and thematic analysis (Braun & Clarke, 2006) of comments (N = 147) from Facebook forums that focused on the key themes related to quality in new build homes that were the concerns of owners. This combination allowed for the focus on key occurring issues in the content (Morgan, 1993) by focusing on their repeated mentions in responses by owners, yet gave the flexibility to identify emerging issues as well as those anticipated from the literature (Braun & Clarke, 2006). Facebook Forums are- a form of online community that allow users to gain answers, advice and support, and connect with others, and comments posted are of an immediate and highly revealing nature (Reid & Duffy, 2018). In essence, the comments are arguably similar to ones which would be shared in any face-to-face interaction, as research into social media shows that overall, an "overarching observation is that the two contexts are essentially similar" (Sheldon, 2015, p.15). Indeed, aspects such as the ability to influence others' opinions have been found to be broadly similar between traditional and social media (Weeks et al., 2017). Admittedly, much research into social media shows the presence of 'herd' mentality whereby individuals follow what others do (e.g. Vishwanath, 2015), thereby suggesting behaviour (and therefore what is said) online may differ greatly from behaviour and comments offline. However, such research tends to focus on how 'phishing' attackers can succeed by creating false popularity (Vishwanth, 2015), or how any herd mentality will operate by individuals' following friends recommendations on personal sites (Wu et al., 2016). In addition, there are subtle differences such as different expectancy norms online whereby more information is shared by an individual if they see others sharing frequently, and concern over privacy is greater even if private data is still shared (Sheldon, 2015). However, broadly speaking, offline and online communication is similar, and this is particularly so with non-personal sites such as Forums. Nevertheless, and as we argue here, the way in which the comments are communicated on such Forums is highly immediate and attempts to emulate and replicate conversational discussions. To do this, the visual impact of the comments is key, so rather than being presented as formally written and objective messages in text alone, they are interspersed with exclamation marks, emojis, and the use of capitals, in communication that more closely emulates the impact, intonation or stress of verbally delivered messages than written text alone (cf. Voloshinov, 1929).

Our data is drawn from 147 comments gathered from nine different forums set up by unsatisfied new home buyers and now used by thousands. This number was deemed sufficient to reach saturation (Fusch & Ness, 2015) as any further comments repeated similar themes. The nine forums were selected as they had the highest number of members and therefore the most activity and prominence in any searches on Facebook (similarly as with a Google search). Anyone can join

these forums and post freely, and the comments box displayed below each post allows others to question and discuss the original post. The pages are under constant scrutiny by other homeowners, providing a check on the information published, and increasing the reliability of the comments. Regarding ethics, as Facebook is public, comments are posted voluntarily and available for all to see.

The comments were published in 2019 and 2020, and total just under 10,000 words. A 'comment' is a person giving their view on a situation, either an initial comment, or a response to another comment; it might focus on one issue (e.g. resealing windows) or on many (e.g. about the colour of mortar, but also NHBC). Comments ranged from 20 to 350 words or more. As noted immediately above, the effect of the comments is heightened by their informal linguistic nature, use of exclamation marks, photos, colloquial language, grammatical inaccuracies, and upper case capital letters and emojis for emphasis². Such usage has a huge impact, and is particularly notable given the lack of anonymity. For example the comment "please share the hell out of this so others no [sic: know] to check everything" comes across with far greater impact in the original "PLEASE SHARE the hell out of this so others no [sic: know] to check EVERYTHING!!".

Analysis of the content was thematic, using a combined 'top-down' deductive and 'bottom-up' inductive approach (Braun & Clarke, 2006) to identify key themes. This was because it was assumed certain 'top-down' themes would be identifiable (e.g. 'safety' and 'workmanship') but considered unexpected themes might emerge 'bottom-up'. This was indeed the case, and provided a structure but allowed for a flexibility to accommodate unanticipated aspects. The pages are under constant scrutiny by other homeowners, providing a check on the information published, and increasing the reliability of the comments. A conscious strategy was adopted to select comments that had many other users posting responses of similar experiences. Whilst it is possible to interpret this as a herd mentality approach that illustrates a decoupling of perception and reality (cf. Vishwanath, 2015), we argue rather that this increases validity and reality, particularly as many comments reflected the experiences reported in the media, and were based not on personal preferences so much as events occurring in the homes. It was often the case that accompanying photographic images were posted for support. s.-Regarding ethics, as Facebook is public, comments are posted voluntarily and available for all to see.

Results and Analysis

The results and qualitative analysis are categorised and presented below under ten themes of: safety; standards; quality; workmanship; customer service; finance and money; advice; NHBC; ombudsman and; page closures. Figure 1. details the number of comments in these themes:

² We note that the emojis we use in this paper are not identical to those used in the social media posts in all cases (e.g. the shade of colour sometimes differs), but where they differ we have selected emojis as similar as possible, and have always selected those with an identical function.

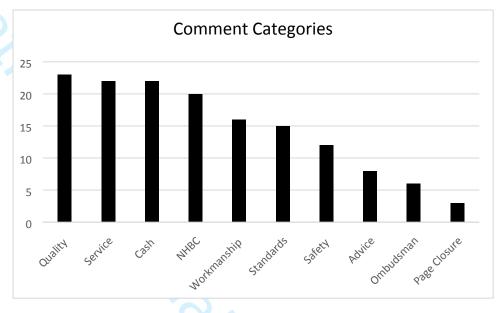


Figure 1: Numbers of comments obtained within each theme.

Below, we focus on each category in turn, first providing a selection of illustrative comments and subthemes in a table, then analysing these against the literature and other sources such as traditional media or legislation. Where comments related to more than one theme, the salient theme is focused on. As the comments are in the public domain, many housebuilders are named in the data selected below (Persimmon, Taylor Wimpey (TW), Croudace, and Linden). We note others were mentioned in the comments but are not in the selected data presented below (Bovis or Barratt).

Table 1. Safety (issues highlighted)

Themes	Comments		
Poor fixings	Unsafe kitchens nearly killed my pregnant wife (Due to light weight fixings)	Typical Taylor Wimpey I had tiles fall off the room they don't seem this serious until one hits one of my kids	The hand basin in my downstairs toilet was flexing on the wall The plasterboard was the only thing holding the hand basin up! No wonder it was flexing.
Structural security	They opened a bedroom window and it just fell out on to the patio! Great house	Sadly this is our home that collapsed in the middle of the night	My Garage was marked unsafe a couple of weeks ago, amongst other regulation breaches.
Safety of the estate	My 4 year old Son has tripped over and split his head open on a Persimmon development siteI'm fuming	We had a break in last nigl on patios are not anti snar our locks are crap- change the next victim.	These burglars know

Safety was key, and related to poor fixings, structural security or the safety of the estate. One property owner's child tripped and severely hurt his head, as a road was incomplete. Here, despite it being the contractor's duty to protect the health and safety of employees and the public (Health and Safety at Work Act, 1974 (HSE Gov, 2020)), this comment suggests public safety is considered compromised. Furthermore, regarding structural security, one customer's home collapsed entirely. This owner posted photographs of the collapse on the forum, commenting further that the contractor is "acting swiftly to correct all damage, which is positive, but sadly it takes something as horrendous & potentially fatal as this to get some decent customer service. Devastated." This incident was reported

on the BBC News (BBC 2019) and the same structural issues were highlighted on similarly designed houses on the estate. Also, poor fixings in kitchens and bathrooms (ef.cf. Barrie, 2007) were considered instrumental in causing near accidents of a potentially serious nature, one customer reporting how he felt his pregnant wife had nearly been killed, and another that falling tiles could at times hit children.

Table 2. Standards (technical items)

Themes	Comments				
Fire	No fire barriers, parts of houses	Persimmon inspection		I've just had a call to say	
Barriers \	"falling off" why the hell are people	told me my	cavity	my inspection from 11	
	still buying them?	barriers wer	e ok	days ago (!!!!!) has	
		butindepe	ndent	found that there are	
		inspector i	dentified I	'some' missing fire	
		have no barr	iers around	barriers.	
		my electrica	l boxes.		
Plumbing	The heating engineerstold me on the	eir first visit	After having	a leak from water tank	
	that the tank and how it had been inst	alled was	into downsta	airs toilet we discovered	
	well below standard. I rang and spoke	to	blow off pipe	e from water tank was	
	persimmon customer services who we	re even	never conne	cted. They confirmed	
	more shocking than the building work		itdidn't me	eet regulationsWe also	
	U _n		discovered o	our water tank was never	
			commission	ed	
Structural	Our TW home has been built (like man	y others on	Our block of	flats are 4yrs old and	
security	our estate) without gable end straps		have been told we have subsidence.		
Finishing	(they) tell me this decorating and finis	h complies wit	h their standa	rds! Definitely not my	
Quality	standards for a "luxury" house.				

Customers were aware of issues relating to standards themselves (e.g. in relation to fire barriers) and learned of issues from inspection reports (e.g. in relation to plumbing). Thus, in these forums there was a synergy between customer knowledge, and knowledge from inspections, producing heightened awareness of issues, and subsequent communication of these issues through social media. Although building regulations and meeting minimum standards are legal requirements buildings must adhere to (Local Government Association, 2017), it still remains possible, for whatever reasons, that for these buyers certain building standards were not being met. These could be serious safety concerns regarding fire barriers and structural security, or potentially damaging issues related to plumbing, or mismatches in perceptions of 'standards' between builders and buyers (ef.cf. Somerville et al. 2012).

Table 3. Quality issues in general

Themes	Comments		50
Legislation	Another few shots of Taylor Wimpey's attempt of house buildingif you think these are rare cases and it will never happen to you, well I was one of them idiots who ignored the advice of current TW homeowners!!!! You have been warned X	I had to move out of my Linden Home for the SECOND time on 19/01/16 and I've NEVER been able to move back. (they) changed the locks, ran off with my keys and refused to fix it	The whole industry is so badly run and new housing legislation is so flawed you all need to raise this with your MP.
Mould	told the mold growing inside the kitchen units and on the stairs was because we never put the heating on immediately to 18°	mould above the front door, underneath the bathroom	issues round our windows! Constantly growing mould!! I'm wiping it away every 2 days!!

Cracking / Brickwork	Has anybody had worse pointing than this on their new build? I don't even know what to say? I'm astounded that it's passed any sort of inspection	Major	s to be the worst!!! crack in the flooring ne end of the house other	Within weeks the floors were creaking along the whole of the upstairs in every room. Causing cracks along the joins where ceiling meets wall and floor/ skirting boards They're all over you like a rash when you're in the process of buying, but the second you move in that's it.
Garden	Apparently 10 inches of turf up the back of fence is acceptable because the fence is	your	garage ruining anyth	onstantly and floods the ing in there. The drain is six
	"treated".	inches above ground		<u> </u>
Sound proofing	I am kept awake by the neighbours boiler won the party wall, switched on all night	_		ours voices clearly, light being turned on and off,
1			blinds being opened	

Quality was a key concern, and here, the 'bold red cross' emoji used by the customer regarding their overall experience of their house (legislation) and the 'person holding their hands up in despair' emoji at the crack in their flooring emphasise the feelings of anger and frustration. Also, the use of capitals (e.g. in relation to having to move out) and of exclamation marks (e.g in relation to the mould growing around the windows) further emphasise the degree of anger and frustration felt. Clearly, the comments suggest the aspiration for zero defects at handover (Egan, 1998) is not being met. Generally, comments focus on poor materials (windows), or poor workmanship (turf; pointing). Notably, a pattern emerges of either a mismatch between customer and housebuilder expectations of quality (Somerville et al., 2012), or of standards and minimum requirements not being met, and of the fault residing with the customer, not the housebuilder. One customer was "astounded that it's passed any sort of inspection" and another told that the mould was because they had not put "the heating on immediately to 18°". Poor soundproofing also suggests minimum standards not being met. Here, an abdication of responsibility is clearly felt, the housebuilder described as "all over you like a rash when you're buying, but the second you move in that's it."

Table 4. Workmanship

Themes	Comments			
Unsatisfied	I am disgusted with the shoddy workmanship on a lot of the house, its truly shocking	We bought a "luxury" home, definitely not. Shoddy workmanship and a nightmare to get snagging done.	The whole industry needs a massive shake up	
Reworks	Their excuse? The homes are all built by hand so won't be perfect	we've had 5 rooms re-plastered so far, how they can claim to be a quality builder is beyond me.		
Endless Snags	Our house has a huge number of snagsthey should have sold us a completed house!	We moved into a TW property recently and pretty much every window has scratches inside the glass.	Utility room tap and pipes plumbed in wrong Downstairs loo sink hanging off the wall and under sink fittings looked like they'd been flung on the	

	wall. Boiler was connected wrong and upstairs thermostat was heating downstairs and
	vice versa.

Comments related to workmanship suggest poor attention to detail and haste created endless snags, a need for reworks (ef.cf. Curry, 2019), and highly unsatisfied customers. Here again, the use of the three 'red angry face' emojis highlights anger at a perceived abdication of responsibility, that as "the homes are all built by hand they won't be perfect." Further, there is a prevalence of minor faults, perhaps due to haste, such as scratches in windows and incorrect plumbing. Here again, the mismatch again between customer expectations and housebuilder products is clear, for example regarding what constituted a 'luxury' home. Notably, an emerging theme, which also arises below, is that the 'whole industry needs a massive shake-up.' In other words, that the causes of such issues are at a fundamental and systemic level.

Table 5. Customer Service

Themes	Comments		
	Comments		I
Service	Kept our dignity despite awful, rude and	The receptionist is	We are having the same
attitude	arrogant responsessite manager when	extremely rude; we ask her	encounters with customer
	we moved in said "who signed this off?"	what's her name and she	service. The area manager
	He didn't know what to say when we	says you don't need to	is also extremely insulting.
	said "you did!"	know that, God Almighty!!!	We're still fighting 9 years
			on!!!
Lack of	The customer service is appalling, how	Customer service is	We are not they're
Customer	they think they can speak to customers	appalling reported it to	customers, we are they're
Service	and treat people this way is shocking.	Persimmon Phoned back	victims!
Sei vice		twice on Thursday as	
		nobody came. Eventually	
		spoke with the M.D who	
		said a roofer would be here	
		first thing Friday. We have	
		tried contacting all day	
		as still nobody has been	
		but all calls gone to	
		answerphone	
Lack of	We've had nothing but problems with	I been fighting to get work	They don't care and the
Response	the sales team, They never respond and	done for over a yearno	site Forman and site
пезропас	have barely guided us through any of	one carescustomer	manager are a joke at the
	this process.	service is a title only	persimmon development
What is	Your fence is acceptable because the	I am not accepting being	After meeting with the big
acceptable?	fence is "treated". The words of the	treated like a fool	cheeses from Persimmon
acceptable:	assistant site manager. No mate, it's not	anymore.	on Monday and hoping for
	acceptable		resolve THE TERM ITS
			WITHIN TOLERANCE was
			used like verbal
			Diarrhoea

Reflecting the comments presented in above sections, customers were unhappy with the nature and level of service. This could be service attitude of staff, or a lack of customer service or response, again underlining mismatches between customer expectations and housebuilder standards (ef.cf. Somerville et al., 2012). The language is often highly informal and reveals intense anger, for example 'God Almighty!!!' with three exclamation marks. Also, the idea of customers being 'victims' and that 'they don't care' suggests a complete lack of any duty of care to customers (ef.cf. Murray 2005). This is further illustrated by the housebuilder understanding of 'acceptable' relating to a fence being 'treated' clashing with the customer understanding, and the use of capitals for 'THE TERM ITS WITHIN TOLERANCE' showing frustration at this gap.

Table 6. Finance and Money

Themes	Comments				
Compensation	compensation and have now taken that away? repaired at Even though I have it in emails. They offered enough the £500 which is shocking for the damage I have not to reim		repaired and they we enough they found not to reimburse thare still waiting for t	by TW we would have to get it and they would reimburse funnily ney found every reason under the sun mburse then agreed to pay half we aiting for the cheque over a year	
Owners feeling robbed	WHEN PEOPLE BUY NEW!! AND PART WITH SUCH LARGE SUMS OF CASH ITS NOT UNREASONABLE TO EXPECT NEW AND ANY ISSUES RAISED TO BE DEALT WITH IN A TIMELY MANNOR BY COMPETENT PEOPLE! I feel robbed	ran off refused paying mortga £1,250	changed the locks, with my keys and d to fix itI'm STILL the monthly age of more than on an empty, ted house.	I've never cried so much over something that should be a happy and exciting time There refusing to cover all the money we've lost so we can pull out	
Lack of care	We had 8 attempts at our kitchen. Standard The problem everywhere and TW don't Care once		The biggest thing you will ever buy In your life and we have no rights		
Additional fees / resale	My house is now unsaleable with doubling ground rent and unregulated service charge. We also have permission fees where we can't even add a conservatory or paint the front door without paying fees. Just awaiting our co		s They won't refund our ft us no choice but to the small claims. They've I rep that we've no chance up the claim. They've also the claim. They've also the claim big boy bully tactics so		
Waste of time or money	The NHBC are truly a waste of time and money	do stuí	n chasing them to if for 15 months if 11 days annual	Word of advice folks simply don't waste your money buying substandard crap	

Cheap Quality	They use cheap contractors and charge	Everything is so cheap that it just breaks eventually
	outrageous prices for their homes	

Money was a key concern, and the use of emojis here underlines the anger and frustration. The 'red angry face' emoji after 'they have our cash'; the 'yellow disappointed face' emoji after we have no rights, and the sarcastic use of the 'thumbs up' emoji after 'substandard' all add powerful emphasis. Similarly, the anger sears through in capitalisation by the owner feeling robbed, having to part with 'SUCH LARGE SUMS OF CASH' (ef.cf. Craig, 2007) to buy a home. Again here the theme that 'we have no rights' emerges, as does the anger at cost-cutting and 'cheap' poor quality materials at 'outrageous prices' for the home. Perceived lack of responsibility to customers again emerges, companies 'refusing to cover' costs and finding 'every reason under the sun' to not reimburse customers. Mention of the NHBC being 'truly a waste of time and money' and customers being threatened with being 'liable for their legal costs' also suggests change is required at a fundamental systemic level.

Table 7. Advice

Themes	Comments			
Don't buy	Urging anyone	So if anyone on here	I would advise	As a Surveyor I
a new	buying or thinking of	thinking of buying a	anyone thinking of	would advise anyone
home	buying a home	TW DONT DO IT.	buying a home from	who hasn't yet
	don't!!!		themDONT DO IT!!	bought a new home,
			AVOID THEM LIKE	never ever buy 'off
		•	THE PLAGUE!!	plan'. Wait for the
		1		property to be
				completed first. If
				this option isn't
				available then just
				walk away.
Homes	It's really important yo	u all book an	I SPEAK FROM EXPERII	ENCEdemand they
require	Inspection as it is not just localised to the check your home fully to ensure it complies		to ensure it complies	
inspections	development on watch	ndog.	to building regulations	•
•			designand get the ar	
			way of a letter of com	pliance

Many urged others not to buy a new home, and where they did, to have it inspected first. Clearly, customers felt they received a poor quality product (ef.cf. Parasuraman et al., 1985), particularly given the huge expense of buying a house (Craig, 2007). The powerful effect is again underlined by informal language and capitalisation, for example 'AVOID THEM LIKE THE PLAGUE!!' Such comments suggest the industry will be unable to change its 'cowboy' image (Proverbs et al., 2000) any time soon. Moreover, the advice to get their own inspection undertaken first suggests both that the show homes do not represent the final bought product (Georgiou et al., 1999) and that the NHBC, and the Buildmark scheme, are accorded little value.

Table 8. NI	Comments		
NHBC Failings / Faults	The NHBC Just left us homeless and failed to book alternative accommodation	i have proof beyond doubt that cost cutting by deviating from original CAD drawings will result in stair failure and potential cost to human life, and that this issue isn't localised, it spans across multiple regions both NHBC and the building ombudsman are complicit in turning a blind eye to this issue	NHBC confirmed it's a fau however both Croudace and NHBC are not willing carry out the repair and a offering a cash settlemen of £1000!!
Siding with builder	They wont bite the hand that feeds them! They cant afford another Persimmon!	Unfortunately the builders appear to be linked favouring them with the NHBC	NHBC complaints allows them 28 days to respond. They will go past this and send you a letter of apology stating you can uthe ombudsman to take things further. This is just way of passing buck again the builder!
Waste of time	We had no joy at all! No response to ANY emails or letters	Nhbc is not worth the paper its written on. Absolutely useless.	NHBC are not worth the paper they are written or they have not been able to anything to support us
Deemed Acceptable	I have sent photos and quoted their own tolerances that the wall and floor are not within yet they seem disinterested and say their tolerances are just guidelines?	The NHBC inspectors confirm work done was atrocious a fixed. They then sent a letter they believed had done a judrop they left outside our bashould be binned	ed verbally to us that the nd dangerous and had to b , four weeks later, confirmi ob within the guidelines. Th

Lies	Bunch of liars the lot of them.	Finally had a reply from consumer Trying to cover their
		backsides now the inspector wrote in his reply "The areas
		stated in the updated report were an indication – less has
		been attended to in some areas, and greater areas have
		been repointed elsewhere" fed up with more lies.

The comments show customers had no faith in the NHBC. They were considered dishonest ('bunch of liars the lot of them'), a complete waste of time ('not worth the paper it's written on') and uncaring and ineffective ('left us homeless'). They were deemed closely aligned with the building companies (e.g. 'the builders appear to be linked'), and thus lacking any independence. Again, a disjunct between customer expectations and legal standards emerges. In relation to 'tolerances' and doing a 'job within the guidelines' there appears a huge gap between what these customers and NHBC considerations of what was appropriate. For customers, the NHBC understanding of appropriate was considered "atrocious and dangerous".

Table 9. Ombudsman

Themes	Comments	
Positive	A New Homes Independent Ombudsman (if	We are fairly confident the Government has
effect	available could have STOPPED so much	taken note and will, in time, implement a
	damage)	truly independent Ombudsman.
Negative	So our elected government has asked the both NHBC and the building ombudsman	
effect	Home Builders Federation to come up with a	complicit in turning a blind eye to this issue
	voluntary ombudsman? I can't see that	
	championing new home buyers and	
	certainly not holding plc housebuilder	
	members "to account"	

Regarding whether an independent ombudsman could resolve customer issues, customers were divided. One hoped that an ombudsman could have 'STOPPED' so much damage, and another was 'fairly confident' an ombudsman would be effective. Arguably, the key word in both these comments is 'independent'. Independence was key to this hope, and in comments of those pessimistic an ombudsman would be effective. One customer felt an ombudsman would be 'complicit' with the NHBC and another felt they would not have the ability (i.e. the power) to hold housebuilders 'to account'. Here again, the theme that systemic change is required was prominent, and the idea emerges it would need to be change that allowed a truly independent, and powerful, body to act on customers' behalf.

Table 10. Page Closures

Themes

Page Taken over	Persimmon homes have just taken over the persimmon homes unhappy buyers group. It's deleting all threads of complaints and comments and responding with 'call our customer care line' it's also hidden the group so new people can't find it	Facebook received a complaint and removed my post wonder who didn't want us telling the mirror what it's like to buy from TW!!!!!
Regret	It is with some regret that we have decided to close the Bovis Homes Victims Group Facebook GroupWe have done our best but we now need to get on with our lives.	

The above comments show housebuilders are paying keen attention to social media; for example, by closing their own forums. One customer's comment and use of three 'angry red face' emojis shows their frustration at information being removed by Persimmon. Significantly, according to one source (Clarence-Smith, 2019) Persimmon paid Facebook to acquire the administrative rights to this page and was given these a week prior to the site's closure. Similarly, another customer's use of the 'curious thinking face' emoji alongside their comment to wonder who complained about their post suggests they think Taylor Wimpey similarly do not like public complaints. Bovis also closed their pages. Here these comments suggest housebuilders are unhappy this information is public.

Discussion

The above results paint a stark picture of the UK private housebuilding industry. Notably, and critically, they provide a picture that rarely emerges from current channels of feedback, as they are not 'managed' by the housebuilding companies. They focus on technical items but the main focus is on the functional items which are arguably of greater importance to customers. Regarding quality, the results show customers feel the sector has abdicated responsibility for quality and standards. A huge lacuna exists between customer expectations regarding workmanship, quality, service, and the reality of the houses they buy and the NHBC's ability to help. This exists on all levels of experience, from scratches on windows, to soundproofing and quality of fittings, and far more serious issues such as houses collapsing and structural defects such as missing gable ends. Importantly, given their occurrence on social media forums, they attempt to convey messages in a way that emulates verbal and so they contain emojis, exclamation marks and capitals that communicate a more visceral and powerful message than written text alone can accomplish.

Most comments relate to functional issues regarding how houses look and feel, not to technical issues potentially covered by the NHBC. Understandably therefore, the comments relating to the NHBC are highly critical, given that concerns are not covered. A frustration and anger runs through these comments; customers feel 'robbed', and 'victims' of the companies. Given Persimmon sold almost half of their homes to first time buyers in 2019 through the help-to-buy scheme (Neate, 2019), these customers will be inexperienced in housebuying and perhaps less apprehensive, and possibly unaware of the industry's negative image (Proverbs *et al.*, 2000). Clearly, as the comments show (particularly those relating to 'Advice') these customers, were they to buy again, would have very different criteria.

Yet, a cursory view of the Five-Star ratings of many UK housebuilders such as Persimmon and Taylor Wimpey would indicate everything is fine, with exemplary show-homes. However, such schemes are usurped by housebuilders (Boothman, <u>et al.Craig & Somerville</u>, 2018) for marketing purposes by seeking feedback at particular stages and strategically presenting the data as positively as possible. Similar strategic approaches are taken to websites; to their acquisition and to the management of negative feedback on social media sites where possible.

Nevertheless, customers today can express their views on social media transparently and openly. The above comments show the visceral and raw nature of these customers' views, and a strong desire to inform others of their experiences to avoid them in the future. A clear message is of the desire for a powerful and independent body to help. Some place hope in the Ombudsman, but others do not; minimal faith is placed in the NHBC, and there is a strong desire for change at a fundamental systemic level.

Despite numerous reports over the years championing current systemic political approaches to the sector and suggesting changes and future approaches, nothing has yet changed. Perhaps this is because those bodies established to enforce any changes and ensure quality focus on technical rather than functional issues, and are too closely linked to a sector which has strategically usurped schemes of guarantees for marketing purposes. Without fundamental systemic change e in the system this will continue. What needs to be introduced are new laws to protect house buyers, and fully independent bodies to help them, with open and transparent outlets for customers to express concerns. It is hoped the planned 'new homes ombudsman' will meet these criteria. As with standard day-to-day products, a house needs to be recognised as a product like any other, with strict and specific quality regulations related to both the house and the buying process.

Conclusion

This paper has presented the results from social media comment posts from UK buyers of new-build homes. The overall picture is of anger, frustration, disbelief, and disempowerment in relation to the gulf between buyer expectations of their new home, and the reality of it. Some comments relate to technical issues (e.g. roof bracing) but most relate to functional issues regarding how the house looks and feels, issues not covered by the NHBC. Consequently, buyers cannot seek compensation nor make legal challenges, particularly as currently houses are not included in relevant UK government legal Acts. UK Housebuilders themselves strategically use current 'assurance' schemes such as the five-star rating system highly effectively in their marketing to encourage consumers to part with large sums of money for what is often their most expensive lifetime purchase. Notably, a house is an essential item, and, importantly, at the current time, the demand for new build homes far exceeds supply. UK private housebuilders are thus favourably placed to make healthy profits (ef.cf. Munday et al., 2014).

Nevertheless, these housebuilders are not immune to criticism although they seek to keep this to a minimum, as illustrated by their closing their own social media sites, and by the suggestion that they paid large sums of money to acquire and then close specific Facebook forums. The comments show a continuing negative picture of the UK private housebuilding sector (ef.cf. Turin, 1969; Boothman et al.,Ramezany, 20187), but also, and significantly, do so without anonymity, and are powerful in their informal language, emojis and capitalisation. The messages are both visceral and unforgiving, both in their negative nature, and also in the absence of any positive comments of satisfaction or joy at the purchase made.

Against this drive for customer satisfaction and to understand quality expectations we have to balance a multi-billion pound industry manufacturing and producing very expensive consumer products, but with little research on the end-customer's expectations. Part of the problem with resolving the quality problem in housing is that unlike other industries, the private housebuilding sector has not tried to define what its customer's expectations and priorities are despite an increase in overall customer awareness and sophistication. The housebuilders of course could be asked to shoulder the blame for the lack of quality within housebuilding but, and we cannot ignore this, the

responsibility may better sit on the shoulders of numerous home buyers who have accepted products not up to expectation with lower than anticipated quality standards.

Arguably, new laws covering both functional and technical issues are required, and any new ombudsman needs significant powers and independence. Independence is key, and the perception shown above is that the bodies ostensibly empowered to help are not considered independent, thereby severely limiting the redress a homebuyer can seek. We suggest the UK government and any new ombudsman should draw on social media sources such as the above in an effort to fundamentally change the current system, perhaps introducing stricter regulations for quality as exist elsewhere (e.g. Singapore). Only with such root changes will the industry be able to rectify its long term negative image and start to instill a sense of pride and quality in its end product.

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Dear Richard,

We've now revised our article in line with the comments from the reviewers and are much happier with it. We feel it is now much stronger as a result. We note that this process has added to the word count by about a thousand words but we have done our utmost to keep this below 9,000 for the article and note also that 299 words of this additional total is in the references in the end of text list. We also note that I terms of pages the total has only increased by 1 page to 17 now for the article. Do however let us know if we should reduce what we've added.

We also note that we have combed through carefully to attempt to ensure consistency in line with Harvard referencing for et al and for page citations. Sometimes we have accepted these in order not to reveal our name by the side. All other changes are shown through our having used the Tools Track Changes facility in Microsoft Word. We also detail below for each of the reviewers how we have responded to their comments. In addition we attach two documents (one for each reviewer) that we have saved as pdf in order to retain the highlights and shown changes and revisions where these details are outlined.

We were entirely in agreement with the reviewers and found their comments which we found both extremely insightful and also highly constructive. However, do please let us know if there is anything else we can do,

Best regards,

Nigel

Reviewer(s)' Comments to Author:

Referee: 1

Recommendation: Major Revision

Comments:

I think this article is both interesting and informative. As academic writing, I feel it needs to more clearly highlight the theoretical perspectives (lens) it is adopting. The methodology requires a stronger position to its content analysis and justification of coding and how such coding relates to the perspective being examined. I have inserted numerous comments within the document to further elaborate on these comments.

Our response: Many thanks for your constructive and incisive comments, particularly for putting these in the pdf so the location of their relation is clearly pinpointed. What we have done is to copy below each of your comments and to note its location in the paper, and to describe how we have responded afterwards. All changes we have made are clearly visible through our use of the Tools Track Changes facility in Microsoft Word. In

addition we have responded to your comments in relation to the Additional Questions after each of these. Our responses are detailed after each one for these. Thank you again for your review and for what you have highlighted and noted. We deeply appreciate these and feel that the paper is far stronger and valuable as a result of responding to them. Do let us know however if there is anything else we can do.

Your comments from the pdf and how we have responded:

Comment 1. Lines 13 - 19 on page 1 in the pdf proof – 'citation required' in relation to the following sentence: "Most companies make healthy profits, and annual accounts of the top ten housebuilders from 2005/06 to 2017/2018 show profit margins ranging from 13.29% to 24% in 2005/06 and all but one housebuilder making yearly profits from 2013 – 2018."

Our response: Thank you for noting this. We now add two citations form which figures can be attained as follows: Most companies make healthy profits, and annual accounts of the top ten housebuilders from 2005/06 to 2017/2018 show profit margins ranging from 13.29% to 24% in 2005/06 and all but one housebuilder making yearly profits from 2013 – 2018 (e.g. Branson, 2013, Gardiner, 2019).

Comment 2. Line 22 on page 1 in the pdf proof – **'Needs full title for International Readers'** in relation to the following: "as illustrated by the recent 2016 APPG report."

Our response: Thank you for noting this – this is now added into the revised draft and copied here for reference with tools track changes highlighted: "as illustrated by the recent 2016 <u>All-Party</u> <u>Parliamentary Group (APPG)</u> report."

Comment 3. Line 24 on page 1 in the pdf proof – 'Again in full' in relation to the following: "MORI and HBF..."

Our response: Again thank you for noting this. We amend in the revised draft to include these in full for international readers as follows: "Market and Opinion Research International Ltd (MORI) and Home Builders Federation (HBF)"

Comment 4. Line 28 on page 1 in the pdf proof – 'Typo?' in relation to the word 'act' in the following: "the Sales of Goods Act of 1979 act (Sales of Goods Act, 1979 (HMSO, 1994))."

Our response: Thank you for spotting this. We have now removed the word 'act' here as follows:

"from the Sales of Goods Act of 1979 act (Sales of Goods Act, 1979 (HMSO, 1994))."

Comment 5. Lines 54 – 56 on page 1 in the pdf proof – 'Quote requires page reference' in relation to the following: "with Turin's (1969) noting that "construction has an image synonymous with high cost, low quality, chaotic working practices and a poor health and safety record" still resonant today (e.g. Ramezany, 2017)."

Our response: Thank you for noting this – in the current lockdown with Coronavirus we have unfortunately been unable to access the original book from the library. However, in our attempt to locate the source, and the source of the quote, we have encountered numerous other sources that highlight the same issues dating from 1931 to the 1960s, 1988, through to the present. We now put all of these to show the ongoing and perennial nature of such issues as follows:

"Despite its significant benefits to the economy¹, the UK construction industry has continually battled with negative public perceptions, and has for decades faced issues of high cost, low quality and of poor health and safety (Emmerson, 1962; Ball, 1988; Boothman et al., 2018), with Turin's (1969) noting that "construction has an image synonymous with high cost, low quality, chaotic working practices and a poor health and safety record" still resonant today (e.g. Ramezany, 2017)."

Comment 6. Line 38 on page 2 in the pdf proof – 'What is this?' in relation to the 'npg' in the following – " "...holes in the ground" (Clements & Lewis, 2019, npg). Notably..."

Our response: Thanks for asking this. We had assumed that the acronym 'npg' was universal in standing for 'no page given' and was used for websites. However, after revisiting the journal guidelines, seeing that the Harvard style is used, and then checking how this is approached in Harvard referencing from other sites, we see we are wrong. Rather than use 'npg' we see we need to specify in some other way – commonly by reference to which paragraph the citation is in. We therefore amend the one you noted in your comment (after we revisited the website) as follows:

"holes in the ground" (Clements & Lewis, 2019, para. 1 npg)."

We also revise all instances of 'npg' in the draft to identify their location in the webpages – and we also amend the end of text list to reflect the more recent access dates.

Comment 7. After Line 35 on page 3 of the pdf proof – 'As this paper considers the impact / influence of social media upon building faults, perceptions etc I consider it appropriate to include in the literature review a discussion about social media. Although there may be little relating specifically to construction sector, there would no doubt be a large amount in consumer literature. This would extend to high involvement consumer behaviour such as housing.' - immediately at the end of the section after the following two final sentences – "The industry therefore would appear set to be able to continue regardless, and to build new homes often dangerously low in quality about which the public have little opportunity to spread widespread word of mouth about. That is, until the advent of social media."

Our response: Thank you for noting this. We have now undertaken further reading into social media how it is used in consumer literature and also drawn upon your own comments below and integrated these. We have studied in particular the elements you highlight such as 'herd mentality' issues of 'perception and reality' and the nature of social media communication by comparison with traditional communication and traditional media communication. Our revision of the paper has involved us physically moving the first section of the methodology that outlined how social media has been used to the end of the literature review and then expanded upon it. Further, we have added in greater detail this theoretical perspective on the nature of social media communication into the methodology. We detail how we have done this below for reference. In addition, we also comment on this in the discussion although haven't referred to it greatly as we feel that much of what we had written still stands, but – and we are extremely grateful to you for this and for highlighting that we should include more related to social media here – feel the article is much stronger with the theoretical basis outlined before it. However, do let us know what you think and if we should do more.

Changes as follows:

¹ As noted above, housing has recently been found to be worth £41billion in revenue; as a whole the construction sector created £117 billion in revenue in 2018 (Rhodes, 2019)

A. End of the literature review and the methodology section:

The industry therefore would appear set to be able to continue regardless, and to build new homes often dangerously low in quality about which the public have little opportunity to spread widespread word of mouth about. That is, until the advent of social media.

Recent years have seen an explosion in social media platforms such as Facebook, Instagram and Twitter, with monthly active Facebook Users recently topping 2.5 billion worldwide (Statista, 2020). Social media channels of communication are the focus of much research in the area of marketing (e.g. Arora et al., 2019), with published literature ranging from areas such as attempting to engage fans of football clubs (Vale & Fernandes, 2018) to strategic marketing of the Sicilian wine industry (Galati et al., 2017). Social media is considered to have a wider reach and greater impact than traditional media (Chu & Kim, 2011), something which will increase over time, particularly with decreasing sales of traditional media such as newspapers (Greenslade, 2009). In the context of housebuilding, some have noted social media's potential to propel the discontent of new homeowners straight into the public domain, highlighting that private housebuilders must take quality seriously (Gardiner, 2017). Yet, to date, social media comments remain little researched in relation to the construction sector, despite the fact that housing is a key example of a product with high consumer involvement.

Data: sources and approaches to collection and analysis.

Recent years have seen an explosion in social media platforms such as Facebook, Instagram and Twitter, with monthly active Facebook Users recently topping 2.5 billion worldwide (Statista, 2020). Social media channels of communication are considered to have a wider reach and greater impact than traditional media (Chu & Kim, 2011), something which will increase over time, particularly with decreasing sales of traditional media such as newspapers (Greenslade, 2009). In the context of housebuilding, some have noted social media's potential to propel the discontent of new homeowners straight into the public domain, highlighting that private housebuilders must take quality seriously (Gardiner, 2017). Yet, to date, social media comments remain little researched.

In this paper we present and discuss a combined content analysis (Morgan 1993) and thematic analysis (Braun & Clarke, 2006) of comments (N = 147) from Facebook forums that focused on the key themes related to quality in new build homes that were the concerns of owners. This combination allowed for the focus on key occurring issues in the content (Morgan, 1993) by focusing on their repeated mentions in responses by owners, yet gave the flexibility to identify emerging issues as well as those anticipated from the literature(Braun & Clarke, 2006). Facebook Forums are- a form of online community that allow users to gain answers, advice and support, and connect with others, and comments posted are of an immediate and highly revealing nature (Reid & Duffy, 2018). In essence, the comments are arguably similar to ones which would be shared in any face-to-face interaction, as research into social media shows that overall, an "overarching observation is that the two contexts are essentially similar" (Sheldon, 2015, p.15). Indeed, aspects such as the ability to influence others' opinions have been found to be broadly similar between traditional and social media (Weeks et al., 2017). Admittedly, much research into social media shows the presence of 'herd' mentality whereby individuals follow what others do (e.g. Vishwanath, 2015), thereby suggesting behaviour (and therefore what is said) online may differ greatly from behaviour and comments offline. However, such research tends to focus on how 'phishing' attackers can succeed by creating false popularity (Vishwanth, 2015), or how any herd mentality will operate by individuals' following friends recommendations on personal sites (Wu et al., 2016). In addition, there are subtle differences such as

different expectancy norms online whereby more information is shared by an individual if they see others sharing frequently, and concern over privacy is greater even if private data is still shared (Sheldon, 2015). However, broadly speaking, offline and online communication is similar, and this is particularly so with non-personal sites such as Forums. Nevertheless, and as we argue here, the way in which the comments are communicated on such Forums is highly immediate and attempts to emulate and replicate conversational discussions. To do this, the visual impact of the comments is key, so rather than being presented as formally written and objective messages in text alone, they are interspersed with exclamation marks, emojis, and the use of capitals, in communication that more closely emulates the impact, intonation or stress of verbally delivered messages than written text alone (cf. Voloshinov, 1929).

Our data is drawn from 147 comments gathered from nine different forums set up by unsatisfied new home buyers and now used by thousands. This number was deemed sufficient to reach saturation (Fusch & Ness, 2015) as any further comments repeated similar themes. The nine forums were selected as they had the highest number of members and therefore the most activity and prominence in any searches on Facebook (similarly as with a Google search). Anyone can join these forums and post freely, and the comments box displayed below each post allows others to question and discuss the original post. The pages are under constant scrutiny by other homeowners, providing a check on the information published, and increasing the reliability of the comments. Regarding ethics, as Facebook is public, comments are posted voluntarily and available for all to see.

The comments were published in 2019 and 2020, and total just under 10,000 words. A 'comment' is a person giving their view on a situation, either an initial comment, or a response to another comment; it might focus on one issue (e.g. resealing windows) or on many (e.g. about the colour of mortar, but also NHBC). Comments ranged from 20 to 350 words or more. As noted immediately above, tThe effect of the comments is heightened by their informal linguistic nature, use of exclamation marks, photos, colloquial language, grammatical inaccuracies, and upper case capital letters and emojis for emphasis². Such usage has a huge impact, and is particularly notable given the lack of anonymity. For example the comment "please share the hell out of this so others no [sic: know] to check everything" comes across with far greater impact in the original "PLEASE SHARE the hell out of this so others no [sic: know] to check EVERYTHING!!".

Analysis of the content was thematic, using a combined 'top-down' deductive and 'bottom-up' inductive approach (Braun & Clarke, 2006) to identify key themes. This was because it was assumed certain 'top-down' themes would be identifiable (e.g. 'safety' and 'workmanship') but considered unexpected themes might emerge 'bottom-up'. This was indeed the case, and provided a structure but allowed for a flexibility to accommodate unanticipated aspects. The pages are under constant scrutiny by other homeowners, providing a check on the information published, and increasing the reliability of the comments. A conscious strategy was adopted to select comments that had many other users posting responses of similar experiences. Whilst it is possible to interpret this as a herd mentality approach that illustrates a decoupling of perception and reality (cf. Vishwanath, 2015), we argue rather that this increases validity and reality, particularly as many comments reflected the experiences reported in the media, and were based not on personal preferences so much as events occurring in the homes. It was often the case that accompanying photographic images were posted for support. s.-Regarding ethics, as Facebook is public, comments are posted voluntarily and available for all to see.

² We note that the emojis we use in this paper are not identical to those used in the social media posts in all cases (e.g. the shade of colour sometimes differs), but where they differ we have selected emojis as similar as possible, and have always selected those with an identical function.

B. Inclusion in the discussion

This exists on all levels of experience, from scratches on windows, to soundproofing and quality of fittings, and far more serious issues such as houses collapsing and structural defects such as missing gable ends. Importantly, given their occurrence on social media forums, they attempt to convey messages in a way that emulates verbal and so they contain emojis, exclamation marks and capitals that communicate a more visceral and powerful message than written text alone can accomplish.

Comment 8. On Line 38 on page 3 of the pdf proof – 'I feel this methodological approach needs a stated theoretical perspective regarding how the data is analysed. The thematic approach stated by the author should also include a comment about themes searched and categorized for analysis' immediately after the title of the methodology section – "Data: sources and approaches to collection and analysis"

Our response: Thank you for noting this. As per the above we have now included a comment on how we have approached the analysis. This di, as you noted in your own comments, involve a content analysis, but combined this with a thematic analysis. We have now noted this at the outset of the Data Collection section at the very start as you suggest. This is shown immediately above but we also note it here for reference as follows:

In this paper we present and discuss a combined content analysis (Morgan 1993) and thematic analysis (Braun & Clarke, 2006) of comments (N = 147) from Facebook forums that focused on the key themes related to quality in new build homes that were the concerns of owners. This combination allowed for the focus on key occurring issues in the content (Morgan, 1993) by focusing on their repeated mentions in responses by owners, yet gave the flexibility to identify emerging issues as well as those anticipated from the literature (Braun & Clarke, 2006).

Last Accessed

Additional Questions:

1. Originality: Does the paper contain new and significant information adequate to justify publication? (i.e. is it a contribution to knowledge?): Yes. This paper examines an established and interesting area. The perspective of social media upon building success is a very interesting and addressing it here makes a contribution.

Our response: Thank you. We are very pleased to read your thoughts here.

2. Relationship to Literature: Does the paper demonstrate an adequate understanding of the relevant literature in the field and cite an appropriate range of literature sources? Is any significant work ignored to your knowledge?: I have included various notes in the .pdf file addressing this point. However, I feel the literature is lacking a discussion of social media, in the context of the built environment and also a theoretical direction. How is the reader to interpret what follows the lit review?

More focus within the review will aid in interpretation of the data and discussion

Our response: We are extremely grateful to you for noting this and feel the paper is now much stronger and more grounded as a result of our responding to your comments and doing this (as outlined above). However, do please let us know your thoughts.

3. Methodology: Is the paper's argument built on an appropriate base of theory, concepts, or other ideas? Has the research or equivalent intellectual work on which the paper is based been well designed? Are the research methods employed appropriate?: The paper needs to better ground the methodological approach adopted, or at least more clearly stated. It is a content analysis of social media text and images. I feel some regard ought to be given to the "herd" mentality that can exist in such media and recognition of perception versus reality. Doing so would strengthen the article with regard to the analysis and discussion

Our response: Again we are extremely grateful for your comments and observations here and are much happier with the revised paper. Again though, do let us know your thoughts.

4. Results: Are results presented clearly and analysed appropriately? Do the conclusions adequately tie together the other elements of the paper?: Yes. I felt this was done quite well. However, the lack of a theoretical lens appears to cause this discussion to seem more of a "commentary" rather than an analysis of content data.

Our response: again thank you. We hope that our revisions now make what we have in the paper appear more an analysis of the data rather than a commentary.

5. Implications for research, practice and/or society: Does the paper identify clearly any implications for research, practice and/or society? Does the paper bridge the gap between theory and practice? How can the research be used in practice (economic and commercial impact), in teaching, to influence public policy, in research (contributing to the body of knowledge)? What is the impact upon society (influencing public attitudes, affecting quality of life)? Are these implications consistent with the findings and conclusions of the paper?: Industry implications are clear, theoretical implications not so clear (see comments above).

I believe this paper has strong industry relevance and sometimes that makes identifying a theoretical position difficult but doing so would increase the depth of the paper and findings.

Our response: Again we hope we have made this stronger in the revisions but do please let us know your thoughts.

6. Quality of Communication: Does the paper clearly express its case, measured against the technical language of the field and the expected knowledge of the journal's

readership? Has attention been paid to the clarity of expression and readability, such as sentence structure, jargon use, acronyms, etc.: Written very well. Some initialism's and acronyms require naming in full for the benefit of international readers.

I felt this paper communicates its ideas and flows logically. Please note other comments and insert revisions in their appropriate sections.

Our response: Thank you for highlighting these. We have attempted to address both the ones you brought to our attention and also a number of issues in aligning how the references were presented to be more in line with the Harvard Style.

Referee: 2

Recommendation: Minor Revision

Comments:

Overall this was an interesting paper with simple information analysis that is useful for the housing industry.

It was unclear how 147 comments were selected and out of how many? Since authors are providing policy recommendation, it may be worth using references from other countries which have strict building quality checks in place like Singapore.

Our response: Thank you we are very pleased to read this. Thank you also for highlighting how it is not clear how we selected the 147 comments and out of how many they were. In addition thank you for suggesting Singapore as an example of how quality checks can be introduced in the UK.

We have made changes in the revised document to integrate your observations and feel the paper is significantly stronger as a result. We have done this using Tools Track Changes but we also copy these here for reference and convenience:

In relation to the selection of the comments as follows:

1. "Our data is drawn from 147 comments gathered from nine different forums set up by unsatisfied new home buyers and now used by thousands. This number was deemed sufficient to reach saturation (Fusch & Ness, 2015) as any further comments repeated similar themes. The nine forums were selected as they had the highest number of members and therefore the most activity and prominence in any searches on Facebook (similarly as with a Google search). Anyone can join these

forums and post freely, and the comments box displayed below each post allows others to question and discuss the original post."

2. "Analysis of the content was thematic, using a combined 'top-down' deductive and 'bottom-up' inductive approach (Braun & Clarke, 2006) to identify key themes. This was because it was assumed certain 'top-down' themes would be identifiable (e.g. 'safety' and 'workmanship') but considered unexpected themes might emerge 'bottom-up'. This was indeed the case, and provided a structure but allowed for a flexibility to accommodate unanticipated aspects. The pages are under constant scrutiny by other homeowners, providing a check on the information published, and increasing the reliability of the comments. A conscious strategy was adopted to select comments that had many other users posting responses of similar experiences. Whilst it is possible to interpret this as a herd mentality approach that illustrates a decoupling of perception and reality (cf. Vishwanath, 2015), we argue rather that this increases validity and reality, particularly as many comments reflected the experiences reported in the media, and were based not on personal preferences so much as events occurring in the homes. It was often the case that accompanying photographic images were posted for support. s.-Regarding ethics, as Facebook is public, comments are posted voluntarily and available for all to see."

In relation to references related to Singapore:

In the introduction:

"Further, many instruments ostensibly intended to assure quality, such as the Five-Star builders rating scheme, are used strategically by the housebuilding sector as marketing tools, and are heavily biased (Boothman, Craig & Somerville, 2018). These fail to give the same certification and guarantee of quality that exists through regulatory structures such as those elsewhere in the world (e.g. Singapore (Pheng and Premnath, 2019)). Overall therefore, despite receiving media attention in programmes such as ITV Tonight's 'New Build Nightmares?' (ITV, 2017), individual customers have struggled to publically express views."

In the conclusion:

"We suggest the UK government and any new ombudsman should draw on social media sources such as the above in an effort to fundamentally change the current system, <u>perhaps introducing stricter regulations for quality as exist elsewhere (e.g. Singapore)</u>. Only with such root changes will the industry be able to rectify its long term negative image and start to instill a sense of pride and quality in its end product."

Additional Questions:

1. Originality: Does the paper contain new and significant information adequate to justify publication? (i.e. is it a contribution to knowledge?): This is an original piece which is relevant for the housing industry.

Our response: Thank you we are very pleased to read this

2. Relationship to Literature: Does the paper demonstrate an adequate understanding of the relevant literature in the field and cite an appropriate range of literature sources?

Is any significant work ignored to your knowledge?: Literature review was interesting to read.

Our response: Thank you we are very pleased to read this

3. Methodology: Is the paper's argument built on an appropriate base of theory, concepts, or other ideas? Has the research or equivalent intellectual work on which the paper is based been well designed? Are the research methods employed appropriate?: Overall this was an interesting paper with simple information analysis that is useful for the housing industry.

It was unclear how 147 comments were selected and out of how many?

Our response: Thank you for highlighting this we have now revised accordingly as outlined above. Do please let us know if there is anything else we can do further.

4. Results: Are results presented clearly and analysed appropriately? Do the conclusions adequately tie together the other elements of the paper?: Results are presented clearly and tied together with the research question.

Our response: Thank you we are very pleased to read this

5. Implications for research, practice and/or society: Does the paper identify clearly any implications for research, practice and/or society? Does the paper bridge the gap between theory and practice? How can the research be used in practice (economic and commercial impact), in teaching, to influence public policy, in research (contributing to the body of knowledge)? What is the impact upon society (influencing public attitudes, affecting quality of life)? Are these implications consistent with the findings and conclusions of the paper?: Overall this was an interesting paper with simple information analysis that is useful for the housing industry.

Our response: Thank you we are very pleased to read this

6. Quality of Communication: Does the paper clearly express its case, measured against the technical language of the field and the expected knowledge of the journal's readership? Has attention been paid to the clarity of expression and readability, such as sentence structure, jargon use, acronyms, etc.: The paper is well written.

Our response: Thank you we are very pleased to read this

The UK private housebuilding sector: Social media perspectives

Introduction

In 2019 the UK construction sector was valued at over £41Bn; constituting 25% of the total UK construction industry, with 21% of this amount being private housebuilding. This created 196,089 new housing units across the UK in 2018 (Rhodes, 2019), although this figure remains below UK Government targets. Most companies make healthy profits, and annual accounts of the top ten housebuilders from 2005/06 to 2017/2018 show profit margins ranging from 13.29% to 24% in 2005/06 and all but one housebuilder making yearly profits from 2013 – 2018 (e.g. Branson, 2013, Gardiner, 2019). Arguably, housing contractors should be keen to improve their reputations (Wilkinson, 2014) and build quality. Indeed, private sector competitiveness has been the underpinning ethos of UK government policy for the last 40 years (*cf.* Hayek, 1980) and claimed by many Government reports (e.g. Latham, 1994; Egan, 1998; Barker, 2004) to increase quality and value.

Yet, despite some Housebuilding Federation (HBF) surveys and results since 2000 showing improvements, much criticism of the sector exists (Baldry, 1997), and customer perceptions of end product quality are low, as illustrated by the recent 2016 All-Party Parliamentary Group (APPG) report. Buyers of private houses have been left in tears (Sommerville & McCosh, 2006), experiencing severe stress from numerous faults (Craig, 2007) in what is commonly their largest lifetime purchase (Lorentzen, 1996). Market and Opinion Research International Ltd (MORI) and Home Builders Federation (HBF) annual surveys since 2000 show overall dissatisfaction with new-build homes and many defects reported. This situation is exacerbated by the absence of protective legislation, with newly built homes being exempt from the Sales of Goods Act of 1979 (Sales of Goods Act, 1979 (HMSO, 1994)). Further, many instruments ostensibly intended to assure quality, such as the Five-Star builders rating scheme, are used strategically by the housebuilding sector as marketing tools, are heavily biased (Boothman et al., 2018). These fail to give the same certification and guarantee of quality that exists through regulatory structures such as those elsewhere in the world (e.g. Singapore (Pheng and Premnath, 2019)). Overall therefore, despite receiving media attention in programmes such as ITV Tonight's 'New Build Nightmares?' (ITV, 2017), individual customers have struggled to publically express views.

However, the explosion in social media offers customers new outlets, and Facebook can reach wider and larger audiences than traditional media (Chu & Kim, 2011). Facebook forums allow instant display of comments, and users can connect with others to share experiences, and gain advice (Reid & Duffy, 2018). This paper first reviews key literature around quality and customer perceptions of the UK private housebuilding sector. It then presents and thematically analyses (Braun & Clarke, 2006) 147 comment posts gathered from nine Facebook forums under themes of: safety; standards; quality; workmanship; customer service; finance and money; advice; NHBC; ombudsman and; page closures. Results corroborate the picture of poor quality in UK private housebuilding. Significantly, the novel use of social media forum comments provides a raw and often visceral picture of frustration, anger, and feelings of neglect. It is recommended such data be harnessed by official bodies and by the 'new home ombudsman' the UK Government aims to establish in 2020 (Barker, 2020) to help address the performance issues experienced.

Quality, reputation, and customer perceptions of UK private housebuilding

Despite its significance to the economy¹, the UK construction industry has continually battled with negative public perceptions, and has for decades faced issues of high cost, low quality and of poor health and safety (Emmerson, 1962; Ball, 1988; Boothman et al., 2018). The Industry's low self-esteem and generally poor client relations (Farmer, 2016, p. 40) reinforce this. Negative public perceptions of the industry stem from building failures, quality issues, workforce accidents and fatalities, increases in cost and time, low professionalism, low productivity, and environmentally hazardous and disruptive practices (Bodapati & Naney, 2001). The industry appears resistant to change, with some noting it lacks innovative thinking (Reichstein et al., 2005). The stereotype of the 'cowboy' builder, i.e. someone who is "incompetent, dishonest and a tax evader" (Proverbs et al., 2000, p. 74) remains widespread, perennially haunting the industry (Haupt & Harinarain, 2016). Construction industry reports (notably Latham 1994; and Egan, 1998) do highlight the need to modernise to improve quality, efficiency, and thus the industry's reputation. However, such reports only commonly identify issues and fail to provide any overall strategy for change. As Proverbs et al. (2000) note, the aim of enhancing the reputation of the industry by improving quality and efficiency is common, but has not translated into practice.

Quality is key to improving the industry and, critically, play a fundamental role in customer expectations. Given the sizeable investment in a new-build home by a customer, it is understandable high levels of quality are expected (Parasuraman *et al.*, 1985). Quality is measured by the gap between customers' expectation levels prior to receiving the product, and the actual expectation customers' have on receiving it (Sommerville *et al.*, 2012). Since Aristotle, quality has been considered as "indicating the goodness of an object" (Shewarth, 1931, p.37). With buying a new build home, customer expectations are set by the contractor showcasing the prospective property via a 'show home', because ultimately the home builder is the client and it is they therefore that set the specification of the new home, not the home buyer (Craig, 2007, p. 2). Yet, 'show homes' are often furnished with premium high quality fittings and furnishings, and any failure to meet this high quality in the purchased final product can result in customer dissatisfaction (Georgiou *et al.*, 1999). Contractors, perhaps understandably, present standards within show homes that are unlikely to be met, a situation encapsulated by Farmer (2016, p. 16) as being that "what is promised regardless of the challenge, is often not delivered".

Continuous monitoring by the UK government, the NHBC, and the HBF reveal starkly negative customer satisfaction. For example, a recent NHBC report found 99% of new build property owners reported snags or defects, and 34% found more problems than originally expected (NHBC, 2019). Of concern is both the sheer volume of these defects, and, importantly, their range and severity, "from leaky ceilings to holes in the ground" (Clements & Lewis, 2019, para. 1). Notably, although previous research has suggested "the house price will generally reflect the quality an overall service received" (Craig, 2007, p. 47), it is increasingly apparent that even a premium price does not guarantee quality. Although anecdotal, this is evidenced by some new homeowners finding 700 defects in a new Persimmon £280,000 house (Forsyth & Sandhu, 2019). Similarly, by Clark's (2005) reports of faults with Charles Church homes, and by a customer's experience of finding fifty faults, some serious, in a £310,000 Barrett Home (Forsyth & Sandhu, 2019, cf. Barrie, 2007).

In the mainstream media, such poor quality and attention to detail is frequently reported (e.g. Curtis, 2011). Murray (2005, p. 10) is quoted as saying "House builders just don't care" and more recent news, notes "the builder Persimmon lacks minimum house standards" (BBC, 2019, para. 1), with many new build homes lacking or incorrectly installing fire-stopping cavity barriers (BBC 2019). The extent and scale of defects is extreme, one owner, having her new Linden home deemed

¹ As noted above, housing has recently been found to be worth £41billion in revenue; as a whole the construction sector created £117 billion in revenue in 2018 (Rhodes, 2019)

inhabitable by the NHBC, was still paying monthly bills and her mortgage (Deeks, 2019). A key issue is the many stages defects can be established and then impact later without any possibility of correction. For example, defects resulting by the site team will equate to increasing numbers and severity of defects at the handover stage (Wilkinson, 2014).

Regarding compensation and customer rights, although the Sales of Goods Act (1979 (HMSO, 1994)) does not protect house-buyers, certain guarantees are claimed to exist. The NHBC provides a 10 year warranty called Buildmark, and the Five-Star Builders scheme claims to give customers reliable housebuilder ratings before purchase (Boothman, et al., 2018). Under the Buildmark scheme, housing contractors provide warranties for the first two years, agreeing to rectify any defects not resulting from wear and tear or lack of maintenance, with the NHBC providing homeowners with an independent resolution service and guarantee (NHBC, 2020). Once this two-year period ends, the NHBC provides eight further years of protection for homeowners if contractors fail to meet NHBC requirements, but this is commonly from a technical viewpoint only. The homebuyer is exposed to many functional aspects (how the house looks and feels) although these functional items tend to be ignored (Craig, 2007, p. 46). Yet, the success of the Buildmark scheme is debatable. Some customers have complained, although relatively few published cases exist. Yet, this lack of published cases is often because the NHBC enforces homeowners to sign non-disclosure agreements, preventing them talking to the media and even neighbours about any issues (Ruddick, 2017). This both suggests the NHBC recognises the negative impact such perspectives could have, and also that dissatisfied homeowners have little ability to relate their experiences. Further, the Five Star Builders scheme intended to give customers a rating of their housebuilder before buying, is strategically implemented by the industry in marketing. By drawing on results gathered at particular stages in the house buying process, customers receive a biased, and overly favourable impression, of the housebuilder (Boothman, et al., 2018)

The ultimate impact of all the above on the industry is a negative one. This subsequently impacts on industry perceptions by those considering employment, who often conclude it is not a "desirable career path" (Sargent, 2020, introduction). There is a consequent significant skill shortage, and low productivity which contributes towards poor workmanship (Farmer, 2016, p. 16). This is despite government demand for homes targeting 300,000 new build homes a year by the mid-2020s (Sargent, 2020). Such initiatives as the Considerate Constructors Scheme (CCS), founded in 1997, have arguably had limited impact given continually emerging negative reports (e.g. Boothman *et al.*, 2018). The industry therefore would appear impervious to change, continuing to build new homes often dangerously low in quality, which the public have little opportunity to comment about. That is, until the advent of social media.

Recent years have seen an explosion in social media platforms such as Facebook, Instagram and Twitter, with monthly active Facebook Users recently topping 2.5 billion worldwide (Statista, 2020). Social media channels of communication are the focus of much research in the area of marketing (e.g. Arora et al., 2019), with published literature ranging from areas such as attempting to engage fans of football clubs (Vale & Fernandes, 2018) to strategic marketing of the Sicilian wine industry (Galati et al., 2017). Social media is considered to have a wider reach and greater impact than traditional media (Chu & Kim, 2011), something which will increase over time, particularly with decreasing sales of traditional media such as newspapers (Greenslade, 2009). In the context of housebuilding, some have noted social media's potential to propel the discontent of new homeowners straight into the public domain, highlighting that private housebuilders must take quality seriously (Gardiner, 2017). Yet, to date, social media comments remain little researched in relation to the construction sector, despite the fact that housing is a key example of a product with high consumer involvement.

Data: sources and approaches to collection and analysis.

In this paper we present and discuss a combined content analysis (Morgan 1993) and thematic analysis (Braun & Clarke, 2006) of comments (N = 147) from Facebook forums that focused on the key themes related to quality in new build homes that were the concerns of owners. This combination allowed for the focus on key occurring issues in the content (Morgan, 1993) by focusing on their repeated mentions in responses by owners, yet gave the flexibility to identify emerging issues as well as those anticipated from the literature (Braun & Clarke, 2006). Facebook Forums are a form of online community that allow users to gain answers, advice and support, and connect with others, and comments posted are of an immediate and highly revealing nature (Reid & Duffy, 2018). In essence, the comments are arguably similar to ones which would be shared in any face-to-face interaction, as research into social media shows that overall, an "overarching observation is that the two contexts are essentially similar" (Sheldon, 2015, p.15). Indeed, aspects such as the ability to influence others' opinions have been found to be broadly similar between traditional and social media (Weeks et al., 2017). Admittedly, much research into social media shows the presence of 'herd' mentality whereby individuals follow what others do (e.g. Vishwanath, 2015), thereby suggesting behaviour (and therefore what is said) online may differ greatly from behaviour and comments offline. However, such research tends to focus on how 'phishing' attackers can succeed by creating false popularity (Vishwanth, 2015), or how any herd mentality will operate by individuals' following friends recommendations on personal sites (Wu et al., 2016). In addition, there are subtle differences such as different expectancy norms online whereby more information is shared by an individual if they see others sharing frequently, and concern over privacy is greater even if private data is still shared (Sheldon, 2015). However, broadly speaking, offline and online communication is similar, and this is particularly so with non-personal sites such as Forums. Nevertheless, and as we argue here, the way in which the comments are communicated on such Forums is highly immediate and attempts to emulate and replicate conversational discussions. To do this, the visual impact of the comments is key, so rather than being presented as formally written and objective messages in text alone, they are interspersed with exclamation marks, emojis, and the use of capitals, in communication that more closely emulates the impact, intonation or stress of verbally delivered messages than written text alone (cf. Voloshinov, 1929).

Our data is drawn from 147 comments gathered from nine different forums set up by unsatisfied new home buyers and now used by thousands. This number was deemed sufficient to reach saturation (Fusch & Ness, 2015) as any further comments repeated similar themes. The nine forums were selected as they had the highest number of members and therefore the most activity and prominence in any searches on Facebook (similarly as with a Google search). Anyone can join these forums and post freely, and the comments box displayed below each post allows others to question and discuss the original post.

The comments were published in 2019 and 2020, and total just under 10,000 words. A 'comment' is a person giving their view on a situation, either an initial comment, or a response to another comment; it might focus on one issue (e.g. resealing windows) or on many (e.g. about the colour of mortar, but also NHBC). Comments ranged from 20 to 350 words or more. As noted immediately above, the effect of the comments is heightened by their informal linguistic nature, use of exclamation marks, photos, colloquial language, grammatical inaccuracies, and upper case capital letters and emojis for emphasis². Such usage has a huge impact, and is particularly notable given the

² We note that the emojis we use in this paper are not identical to those used in the social media posts in all cases (e.g. the shade of colour sometimes differs), but where they differ we have selected emojis as similar as possible, and have always selected those with an identical function.

lack of anonymity. For example the comment "please share the hell out of this so others no [sic: know] to check everything" comes across with far greater impact in the original "PLEASE SHARE the hell out of this so others no [sic: know] to check EVERYTHING!!".

Analysis of the content was thematic, using a combined 'top-down' deductive and 'bottom-up' inductive approach (Braun & Clarke, 2006) to identify key themes. This was because it was assumed certain 'top-down' themes would be identifiable (e.g. 'safety' and 'workmanship') but considered unexpected themes might emerge 'bottom-up'. This was indeed the case, and provided a structure but allowed for a flexibility to accommodate unanticipated aspects. The pages are under constant scrutiny by other homeowners, providing a check on the information published, and increasing the reliability of the comments. A conscious strategy was adopted to select comments that had many other users posting responses of similar experiences. Whilst it is possible to interpret this as a herd mentality approach that illustrates a decoupling of perception and reality (cf. Vishwanath, 2015), we argue rather that this increases validity and reality, particularly as many comments reflected the experiences reported in the media, and were based not on personal preferences so much as events occurring in the homes. It was often the case that accompanying photographic images were posted for support. Regarding ethics, as Facebook is public, comments are posted voluntarily and available for all to see.

Results and Analysis

The results and qualitative analysis are categorised and presented below under ten themes of: safety; standards; quality; workmanship; customer service; finance and money; advice; NHBC; ombudsman and; page closures. Figure 1. details the number of comments in these themes:

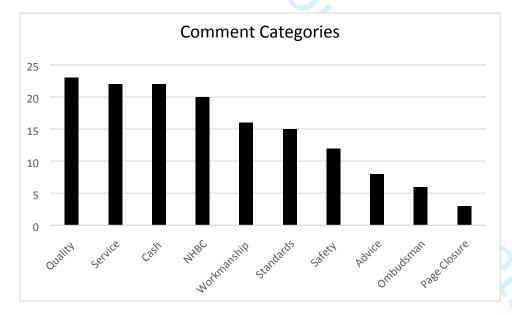


Figure 1: Numbers of comments obtained within each theme.

Below, we focus on each category in turn, first providing a selection of illustrative comments and subthemes in a table, then analysing these against the literature and other sources such as traditional media or legislation. Where comments related to more than one theme, the salient theme is focused on. As the comments are in the public domain, many housebuilders are named in the data selected below (Persimmon, Taylor Wimpey (TW), Croudace, and Linden). We note others were mentioned in the comments but are not in the selected data presented below (Bovis or Barratt).

Table 1. Safety (issues highlighted)

Themes	Comments		
Poor fixings	Unsafe kitchens nearly killed my pregnant wife (Due to light weight fixings)	Typical Taylor Wimpey I had tiles fall off the room they don't seem this serious until one hits one of my kids	The hand basin in my downstairs toilet was flexing on the wall The plasterboard was the only thing holding the hand basin up! No wonder it was flexing.
Structural security	They opened a bedroom window and it just fell out on to the patio! Great house	Sadly this is our home that collapsed in the middle of the night	My Garage was marked unsafe a couple of weeks ago, amongst other regulation breaches.
Safety of the estate	My 4 year old Son has tripped over and split his head open on a Persimmon development siteI'm fuming	We had a break in last nigle on patios are not anti snap our locks are crap- change the next victim.	These burglars know

Safety was key, and related to poor fixings, structural security or the safety of the estate. One property owner's child tripped and severely hurt his head, as a road was incomplete. Here, despite it being the contractor's duty to protect the health and safety of employees and the public (Health and Safety at Work Act, 1974 (HSE Gov, 2020)), this comment suggests public safety is considered compromised. Furthermore, regarding structural security, one customer's home collapsed entirely. This owner posted photographs of the collapse on the forum, commenting further that the contractor is "acting swiftly to correct all damage, which is positive, but sadly it takes something as horrendous & potentially fatal as this to get some decent customer service. Devastated." This incident was reported on the BBC News (BBC 2019) and the same structural issues were highlighted on similarly designed houses on the estate. Also, poor fixings in kitchens and bathrooms (cf. Barrie, 2007) were considered instrumental in causing near accidents of a potentially serious nature, one customer reporting how he felt his pregnant wife had nearly been killed, and another that falling tiles could at times hit children.

Table 2. Standards (technical items)

Themes	Comments			
Fire	No fire barriers, parts of houses	Persimmon inspection		I've just had a call to say
Barriers	"falling off" why the hell are people	told me my	cavity	my inspection from 11
	still buying them?	barriers wer	e ok	days ago (!!!!!) has
		butindepe	ndent	found that there are
		inspector i	dentified I	'some' missing fire
		have no barı	riers around	barriers.
		my electrica	boxes.	
Plumbing	The heating engineerstold me on the	heir first visit		a leak from water tank
	that the tank and how it had been inst	n installed was into downstairs toilet we discovered		airs toilet we discovered
	well below standard. I rang and spoke	oke to blow off pipe from water tank was		e from water tank was
	persimmon customer services who we			cted. They confirmed
	more shocking than the building work	vork itdidn't meet regulationsWe als discovered our water tank was never		eet regulationsWe also
				ur water tank was never
	commissioned		ed	
Structural	Our TW home has been built (like many others on		Our block of	flats are 4yrs old and
security	our estate) without gable end straps		have been to	old we have subsidence.
Finishing	(they) tell me this decorating and finish complies with their standards! Definitely not my		rds! Definitely not my	
Quality	standards for a "luxury" house.			

Customers were aware of issues relating to standards themselves (e.g. in relation to fire barriers) and learned of issues from inspection reports (e.g. in relation to plumbing). Thus, in these forums there was a synergy between customer knowledge, and knowledge from inspections, producing heightened awareness of issues, and subsequent communication of these issues through social media. Although building regulations and meeting minimum standards are legal requirements buildings must adhere to (Local Government Association, 2017), it still remains possible, for whatever reasons, that for these buyers certain building standards were not being met. These could be serious safety concerns regarding fire barriers and structural security, or potentially damaging issues related to plumbing, or mismatches in perceptions of 'standards' between builders and buyers (cf. Somerville et al. 2012).

Table 3. Quality issues in general

Themes	Comments			
Legislation	Another few shots of Taylor Wimpey's attempt of house buildingif you think these are rare cases and it will never happen to you, well I was one of them idiots who ignored the advice of current TW homeowners!!!! You have been warned X	Linden SECON and I've to mov change	o move out of my Home for the D time on 19/01/16 e NEVER been able e back. (they) d the locks, ran off y keys and refused	The whole industry is so badly run and new housing legislation is so flawed you all need to raise this with your MP.
Mould	told the mold growing inside the kitchen units and on the stairs was because we never put the heating on immediately to 18°		above the front nderneath the om	issues round our windows! Constantly growing mould!! I'm wiping it away every 2 days!!
Cracking / Brickwork	Has anybody had worse pointing than this on their new build? I don't even know what to say? I'm astounded that it's passed any sort of inspection	Major	s to be the worst!!! crack in the flooring ne end of the house other	Within weeks the floors were creaking along the whole of the upstairs in every room. Causing cracks along the joins where ceiling meets wall and floor/ skirting boards They're all over you like a rash when you're in the process of buying, but the second you move in that's it.
Garden	Apparently 10 inches of turf up the back of fence is acceptable because the fence is "treated".	, , , , , , , , , , , , , , , , , , ,		ing in there. The drain is six
Sound proofing	I am kept awake by the neighbours boiler on the party wall, switched on all night			ours voices clearly, light s being turned on and off,

Quality was a key concern, and here, the 'bold red cross' emoji used by the customer regarding their overall experience of their house (legislation) and the 'person holding their hands up in despair' emoji at the crack in their flooring emphasise the feelings of anger and frustration. Also, the use of capitals (e.g. in relation to having to move out) and of exclamation marks (e.g in relation to the mould growing around the windows) further emphasise the degree of anger and frustration felt. Clearly, the comments suggest the aspiration for zero defects at handover (Egan, 1998) is not being met. Generally, comments focus on poor materials (windows), or poor workmanship (turf; pointing). Notably, a pattern emerges of either a mismatch between customer and housebuilder expectations of quality (Somerville et al., 2012), or of standards and minimum requirements not being met, and of the fault residing with the customer, not the housebuilder. One customer was "astounded that it's

passed any sort of inspection" and another told that the mould was because they had not put "the heating on immediately to 18°". Poor soundproofing also suggests minimum standards not being met. Here, an abdication of responsibility is clearly felt, the housebuilder described as "all over you like a rash when you're buying, but the second you move in that's it."

Table 4. Workmanship

Themes	Comments		
Unsatisfied	I am disgusted with the shoddy workmanship on a lot of the house, its truly shocking	We bought a "luxury" home, definitely not. Shoddy workmanship and a nightmare to get snagging done.	The whole industry needs a massive shake up
Reworks	Their excuse? The homes are all built by hand so won't be perfect	we've had 5 rooms re-	plastered so far, how they ty builder is beyond me.
Endless Snags	Our house has a huge number of snagsthey should have sold us a completed house!	We moved into a TW property recently and pretty much every window has scratches inside the glass.	Utility room tap and pipes plumbed in wrong Downstairs loo sink hanging off the wall and under sink fittings looked like they'd been flung on the wall. Boiler was connected wrong and upstairs thermostat was heating downstairs and vice versa.

Comments related to workmanship suggest poor attention to detail and haste created endless snags, a need for reworks (*cf.* Curry, 2019), and highly unsatisfied customers. Here again, the use of the three 'red angry face' emojis highlights anger at a perceived abdication of responsibility, that as "the homes are all built by hand they won't be perfect." Further, there is a prevalence of minor faults, perhaps due to haste, such as scratches in windows and incorrect plumbing. Here again, the mismatch again between customer expectations and housebuilder products is clear, for example regarding what constituted a 'luxury' home. Notably, an emerging theme, which also arises below, is that the 'whole industry needs a massive shake-up.' In other words, that the causes of such issues are at a fundamental and systemic level.

Table 5. Customer Service

Themes	Comments		
Service	Kept our dignity despite awful, rude and	The receptionist is	We are having the same
attitude	arrogant responsessite manager when	extremely rude; we ask her	encounters with customer

Lack of	we moved in said "who signed this off?" He didn't know what to say when we said "you did!" The customer service is appalling, how	what's her name and she says you don't need to know that, God Almighty!!! Customer service is	service. The area manager is also extremely insulting. We're still fighting 9 years on!!! We are not they're
Customer Service	they think they can speak to customers and treat people this way is shocking.	appalling reported it to Persimmon Phoned back twice on Thursday as nobody came. Eventually spoke with the M.D who said a roofer would be here first thing Friday. We have tried contacting all day as still nobody has been but all calls gone to answerphone	customers, we are they're victims!
Lack of	We've had nothing but problems with	I been fighting to get work	They don't care and the site Forman and site
Response	the sales team, They never respond and have barely guided us through any of this process.	done for over a yearno one carescustomer service is a title only	manager are a joke at the persimmon development
What is acceptable?	Your fence is acceptable because the fence is "treated". The words of the assistant site manager. No mate, it's not acceptable	I am not accepting being treated like a fool anymore.	After meeting with the big cheeses from Persimmon on Monday and hoping for resolve THE TERM ITS WITHIN TOLERANCE was used like verbal Diarrhoea

Reflecting the comments presented in above sections, customers were unhappy with the nature and level of service. This could be service attitude of staff, or a lack of customer service or response, again underlining mismatches between customer expectations and housebuilder standards (cf. Somerville et al., 2012). The language is often highly informal and reveals intense anger, for example 'God Almighty!!!' with three exclamation marks. Also, the idea of customers being 'victims' and that 'they don't care' suggests a complete lack of any duty of care to customers (cf. Murray 2005). This is further Ditals for illustrated by the housebuilder understanding of 'acceptable' relating to a fence being 'treated' clashing with the customer understanding, and the use of capitals for 'THE TERM ITS WITHIN TOLERANCE' showing frustration at this gap.

Table 6. Finance and Money

Themes	Comments
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Compensation of the compensation and have now taken that away? Even though I have it in emails. They offered £500 which is shocking for the damage I have evidence of everything including loss of earnings Owners					
compensation and have now taken that away? Even though I have it in emails. They offered E500 which is shocking for the damage I have evidence of everything including loss of earnings Owners feeling robbed OwnerS HIT SUCH LARGE SUMS OF CASH ITS NOT UNREASONABLE TO EXPECT NEW AND ANY ISSUES RAISED TO BE DEALT WITH IN A TIMELY MANNOR BY COMPETENT PEOPLE!I feel robbed Lack of care We had 8 attempts at our kitchen. Standard problem everywhere and TW don't Care once they have our cash Additional fees / resale Maste of time or money The NHBC are truly a waste of time and or money Cheap Quality Comparison and have now taken that away? Even though I have it in emails. They offered E500 which is shocking for the cheque over a year later (They) changed the locks, ran off with my keys and refused to fix itI'm STILL paying the monthly mortgage of more than frusty to or an empty, neglected house. The biggest thing you will ever buy In your life and we have no rights The biggest thing you will ever buy In your life and we have no rights The biggest thing you will ever buy In your life and we have no rights The biggest thing you will ever buy In your life and we have no rights The biggest thing you will ever buy In your life and we have no rights The biggest thing you will ever buy In your life and we have no rights The biggest thing you will ever buy In your life and we have no rights The biggest thing you will ever buy In your legal fees so they left us no choice but to pursue them through the small claims. They've stated via their legal rep that we've no chance of winning so to drop the claim. They've also stated we'll be liable for their legal costs. We're used to the excuses and big boy bully tactics so off to court we go. Cheap Quality The yuse cheap contractors and charge Everything is so cheap that it just breaks eventually	Compensation	My electrics have caught on fire, they off	ered	were told by TW we	would have to get it
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Money was a key concern, and the use of emojis here underlines the anger and frustration. The 'red angry face' emoji after 'they have our cash'; the 'yellow disappointed face' emoji after we have no rights, and the sarcastic use of the 'thumbs up' emoji after 'substandard' all add powerful emphasis. Similarly, the anger sears through in capitalisation by the owner feeling robbed, having to part with 'SUCH LARGE SUMS OF CASH' (cf. Craig, 2007) to buy a home. Again here the theme that 'we have no rights' emerges, as does the anger at cost-cutting and 'cheap' poor quality materials at 'outrageous prices' for the home. Perceived lack of responsibility to customers again emerges, companies 'refusing to cover' costs and finding 'every reason under the sun' to not reimburse customers. Mention of the NHBC being 'truly a waste of time and money' and customers being threatened with being 'liable for their legal costs' also suggests change is required at a fundamental systemic level.

Table 7. Advice

Table 7. Advice Themes Comments	then legal co	osts' also suggests change is required a	it a fundamental systemic level.
Table 7. Advice Themes Comments			
Themes Comments	Table 7 A	Adviso	
	Table 7. F	Auvice	

Don't buy a new home	Urging anyone buying or thinking of buying a home don't!!!	So if anyone on here thinking of buying a TW DONT DO IT.	I would advise anyone thinking of buying a home from themDONT DO IT!! AVOID THEM LIKE THE PLAGUE!!	As a Surveyor I would advise anyone who hasn't yet bought a new home, never ever buy 'off plan'. Wait for the property to be completed first. If this option isn't
				available then just walk away.
Homes	It's really important you all book an Inspection as it is not just localised to the		I SPEAK FROM EXPERIE	NCEdemand they
require			check your home fully to ensure it complies	
inspections	development on watch	ndog.	to building regulations	-
			designand get the ar way of a letter of com	

Many urged others not to buy a new home, and where they did, to have it inspected first. Clearly, customers felt they received a poor quality product (cf. Parasuraman et al., 1985), particularly given the huge expense of buying a house (Craig, 2007). The powerful effect is again underlined by informal language and capitalisation, for example 'AVOID THEM LIKE THE PLAGUE!!' Such comments suggest ma, artaken. giou et al., the industry will be unable to change its 'cowboy' image (Proverbs et al., 2000) any time soon. Moreover, the advice to get their own inspection undertaken first suggests both that the show homes do not represent the final bought product (Georgiou et al., 1999) and that the NHBC, and the Buildmark scheme, are accorded little value.

Table 8. NHBC

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Themes	Comments

NHBC Failings / Faults	The NHBC Just left us homeless and failed to book alternative accommodation	i have proof beyond doubt that cost cutting by deviating from original CAD drawings will result in stair failure and potential cost to human life, and that this issue isn't localised, it spans across multiple regions both NHBC and the building ombudsman are complicit in turning a blind eye to this issue	NHBC confirmed it's a fault however both Croudace and NHBC are not willing to carry out the repair and are offering a cash settlement of £1000!!
Siding with builder	They wont bite the hand that feeds them! They cant afford another Persimmon!	Unfortunately the builders appear to be linked favouring them with the NHBC	NHBC complaints allows them 28 days to respond. They will go past this and send you a letter of apology stating you can use the ombudsman to take things further. This is just a way of passing buck against the builder!
Waste of time	We had no joy at all! No response to ANY emails or letters	Nhbc is not worth the paper its written on. Absolutely useless.	NHBC are not worth the paper they are written on they have not been able to do anything to support us.
Deemed Acceptable	I have sent photos and quoted their own tolerances that the wall and floor are not within yet they seem disinterested and say their tolerances are just guidelines?	· ·	
Lies	Bunch of liars the lot of them.	Finally had a reply from consumer Trying to cover their backsides now the inspector wrote in his reply "The areas stated in the updated report were an indication – less has been attended to in some areas, and greater areas have been repointed elsewhere" fed up with more lies.	

The comments show customers had no faith in the NHBC. They were considered dishonest ('bunch of liars the lot of them'), a complete waste of time ('not worth the paper it's written on') and uncaring and ineffective ('left us homeless'). They were deemed closely aligned with the building companies (e.g. 'the builders appear to be linked'), and thus lacking any independence. Again, a disjunct between customer expectations and legal standards emerges. In relation to 'tolerances' and doing a 'job within the guidelines' there appears a huge gap between what these customers and NHBC considerations of what was appropriate. For customers, the NHBC understanding of appropriate was considered "atrocious and dangerous".

Table 9. Ombudsman

Themes	Comments
•	

Positive	A New Homes Independent Ombudsman (if	We are fairly confident the Government has
effect	available could have STOPPED so much	taken note and will, in time, implement a
	damage)	truly independent Ombudsman.
Negative	So our elected government has asked the	both NHBC and the building ombudsman are
effect	Home Builders Federation to come up with a	complicit in turning a blind eye to this issue
	voluntary ombudsman? I can't see that	
	championing new home buyers and	
	certainly not holding plc housebuilder	
	members "to account"	

Regarding whether an independent ombudsman could resolve customer issues, customers were divided. One hoped that an ombudsman could have 'STOPPED' so much damage, and another was 'fairly confident' an ombudsman would be effective. Arguably, the key word in both these comments is 'independent'. Independence was key to this hope, and in comments of those pessimistic an ombudsman would be effective. One customer felt an ombudsman would be 'complicit' with the NHBC and another felt they would not have the ability (i.e. the power) to hold housebuilders 'to account'. Here again, the theme that systemic change is required was prominent, and the idea emerges it would need to be change that allowed a truly independent, and powerful, body to act on customers' behalf.

Table 10. Page Closures

Themes	Comments	
Page Taken over	Persimmon homes have just taken over the persimmon homes unhappy buyers group. It's deleting all threads of complaints and comments and responding with 'call our customer care line' it's also hidden the group so new people can't find it what the actual!	Facebook received a complaint and removed my post wonder who didn't want us telling the mirror what it's like to buy from TW!!!!!
Regret	It is with some regret that we have decided to close Facebook GroupWe have done our best but we no	· ·

The above comments show housebuilders are paying keen attention to social media; for example, by closing their own forums. One customer's comment and use of three 'angry red face' emojis shows their frustration at information being removed by Persimmon. Significantly, according to one source (Clarence-Smith, 2019) Persimmon paid Facebook to acquire the administrative rights to this page and was given these a week prior to the site's closure. Similarly, another customer's use of the 'curious thinking face' emoji alongside their comment to wonder who complained about their post suggests they think Taylor Wimpey similarly do not like public complaints. Bovis also closed their pages. Here these comments suggest housebuilders are unhappy this information is public.

Discussion

The above results paint a stark picture of the UK private housebuilding industry. Notably, and critically, they provide a picture that rarely emerges from current channels of feedback, as they are not 'managed' by the housebuilding companies. They focus on technical items but the main focus is on the functional items which are arguably of greater importance to customers. Regarding quality, the results show customers feel the sector has abdicated responsibility for quality and standards. A huge

lacuna exists between customer expectations regarding workmanship, quality, service, and the reality of the houses they buy and the NHBC's ability to help. This exists on all levels of experience, from scratches on windows, to soundproofing and quality of fittings, and far more serious issues such as houses collapsing and structural defects such as missing gable ends. Importantly, given their occurrence on social media forums, they attempt to convey messages in a way that emulates verbal and so they contain emojis, exclamation marks and capitals that communicate a more visceral and powerful message than written text alone can accomplish.

Most comments relate to functional issues regarding how houses look and feel, not to technical issues potentially covered by the NHBC. Understandably therefore, the comments relating to the NHBC are highly critical, given that concerns are not covered. A frustration and anger runs through these comments; customers feel 'robbed', and 'victims' of the companies. Given Persimmon sold almost half of their homes to first time buyers in 2019 through the help-to-buy scheme (Neate, 2019), these customers will be inexperienced in housebuying and perhaps less apprehensive, and possibly unaware of the industry's negative image (Proverbs *et al.*, 2000). Clearly, as the comments show (particularly those relating to 'Advice') these customers, were they to buy again, would have very different criteria.

Yet, a cursory view of the Five-Star ratings of many UK housebuilders such as Persimmon and Taylor Wimpey would indicate everything is fine, with exemplary show-homes. However, such schemes are usurped by housebuilders (Boothman, et al., 2018) for marketing purposes by seeking feedback at particular stages and strategically presenting the data as positively as possible. Similar strategic approaches are taken to websites; to their acquisition and to the management of negative feedback on social media sites where possible.

Nevertheless, customers today can express views on social media transparently and openly. The above comments show the visceral and raw nature of these views, and a strong desire to inform others of their experiences to avoid them in the future. A clear message the desire for a powerful and independent body to help. Some place hope in the Ombudsman, but others do not; minimal faith is placed in the NHBC, and there is a strong desire for change at a fundamental systemic level.

Despite numerous reports over the years championing current systemic political approaches to the sector and suggesting changes and future approaches, nothing has changed. Perhaps because those bodies established to enforce any changes and ensure quality focus on technical rather than functional issues, and are too closely linked to a sector which has strategically usurped schemes of guarantees for marketing purposes. Without fundamental systemic change this will continue. What needs to be introduced are new laws to protect house buyers, and fully independent bodies to help them, with open transparent outlets for customers to express concerns. It is hoped the planned 'new homes ombudsman' will meet these criteria. As with standard day-to-day products, a house needs to be recognised as a product like any other, with strict and specific quality regulations related to both the house and the buying process.

Conclusion

This paper has presented the results from social media comment posts from UK buyers of new-build homes. The overall picture is of anger, frustration, disbelief, and disempowerment in relation to the gulf between buyer expectations of their new home, and the reality of it. Some comments relate to technical issues (e.g. roof bracing) but most relate to functional issues regarding how the house looks and feels, issues not covered by the NHBC. Consequently, buyers cannot seek compensation nor make legal challenges, particularly as currently houses are not included in relevant UK government legal

Acts. UK Housebuilders themselves strategically use current 'assurance' schemes such as the five-star rating system highly effectively in their marketing to encourage consumers to part with large sums of money for what is often their most expensive lifetime purchase. Notably, a house is an essential item, and, importantly, at the current time, the demand for new build homes far exceeds supply. UK private housebuilders are thus favourably placed to make healthy profits (cf. Munday et al., 2014).

Nevertheless, these housebuilders are not immune to criticism although they seek to keep this to a minimum, as illustrated by their closing their own social media sites, and by the suggestion that they paid large sums of money to acquire and then close specific Facebook forums. The comments show a continuing negative picture of the UK private housebuilding sector (*cf.*; Boothman et al.,, 2018), but also, and significantly, do so without anonymity, and are powerful in their informal language, emojis and capitalisation. The messages are both visceral and unforgiving, both in their negative nature, and also in the absence of any positive comments of satisfaction or joy at the purchase made.

Against this drive for customer satisfaction and to understand quality expectations we have to balance a multi-billion pound industry manufacturing and producing very expensive consumer products, but with little research on the end-customer's expectations. Part of the problem with resolving the quality problem in housing is that unlike other industries, the private housebuilding sector has not tried to define what its customer's expectations and priorities are despite an increase in overall customer awareness and sophistication. The housebuilders of course could be asked to shoulder the blame for the lack of quality within housebuilding but, and we cannot ignore this, the responsibility may better sit on the shoulders of numerous home buyers who have accepted products not up to expectation with lower than anticipated quality standards.

Arguably, new laws covering both functional and technical issues are required, and any new ombudsman needs significant powers and independence. Independence is key, and the perception shown above is that the bodies ostensibly empowered to help are not considered independent, thereby severely limiting the redress a homebuyer can seek. We suggest the UK government and any new ombudsman should draw on social media sources such as the above in an effort to fundamentally change the current system, perhaps introducing stricter regulations for quality as exist elsewhere (e.g. Singapore). Only with such root changes will the industry be able to rectify its long term negative image and start to instill a sense of pride and quality in its end product.

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