



Working paper

Reviewing the Housing Supply Literature

A Literature Mapping

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Key messages:

- This literature mapping focuses on housing supply literature that emerged since 2005. The mapping is geographically limited to the UK and the timeframe is based on including both sides of the 2008 pre- and post-crash period.
- As part of the mapping process, 'literature mapping' is developed as a methodology to produce a broad literature mapping in a limited timeframe. This working paper also presents the research methodology by discussing how it was developed.
- The mapping reviews aspects of housing supply literature through related concepts, emerging trends and research interests within this timeframe. Therefore, it provides a base for forthcoming evidence reviews under the 'Housing Markets' theme.
- The results show a growing interest in various aspects of sustainability in relation to housing supply such as climate responsive approaches to residential construction, energy consumption and energy efficiency in existing and new-build homes.

1. Introduction

The UK Collaborative Centre for Housing Evidence aims to produce robust evidence on the current housing issues by focusing on seven themes, namely, (1) housing and the economy, (2) understanding the housing market, (3) multi-level governance, (4) housing aspirations, choices and outcomes, (5) housing and neighbourhood design, sustainability and place-making, (6) housing, poverty, health, education and employment, and (7) homelessness. The theme of housing markets is broadly defined across housing supply, demand, need and different housing tenures. This literature mapping contributes to the theme by reviewing housing supply literature.

This literature mapping aims to produce a focused review of housing supply literature by focusing on the UK and by covering an extensive sample of academic literature and a limited sample of grey literature published since 2005. The purpose of the review is to provide a base for forthcoming evidence reviews related to housing supply in the UK.

This working paper first starts with summarising the development of the research methodology called 'literature mapping' (see Serin (2018); Soaita (2017, 2018) for another application of this methodology). Second, the paper focusses on the literature mapping of housing supply literature. The results of this mapping are presented through an inductive typology of the subthemes that emerged during a review of abstracts, as a result of the exploratory nature of the literature mapping. Through this inductive categorisation, the typology provides a valuable analysis tool as it is grounded in the review per se rather than implementing a top-down categorisation.

The results show an expanding interest in various aspects of sustainability in relation to housing supply such as climate responsive approaches to residential construction, energy consumption and efficiency of existing and new-build homes, and sustainable building materials.

2. Research Methodology

A five-phase-research strategy was developed for this literature mapping as follows: (1) identifying relevant keywords and queries for an efficient review of housing supply literature, (2) selecting academic indexes regarding their relevance to housing supply (3) running these keywords and queries and creating a main database, (4) conducting an inductive content analysis of the sources forming the main database, and (5) analysing the results of the content analysis, distribution of sources and other patterns emerging from the review.

(1) Relevant keywords were identified by discussing them with theme lead Chris Leishman (University of Adelaide) and a co-investigator within the Housing Markets Theme, Sarah Payne (University of Sheffield). Some alternative queries were piloted and revised by the researcher in order to reach efficient combinations of the identified keywords.

(2) This literature mapping is based on three indices, namely, Scopus, Web of Science and SocIndex. Scopus and Web of Science are included in the review as being the two broadest academic indexes. SocIndex is included as the third one as this index covers urban issues as well as grey literature on housing issues. For a detailed analysis of the indexes, their comparative coverage and scopes, see methodology section of placemaking literature mapping working paper (Serin, 2018).

(3) In the third phase, identified keywords and queries were run in the selected indices and the main database was created. The indices were searched through the title, abstract and keywords, and not through the full-texts of the sources. Exclusion of full-text searches has three main methodological reasons. First, this is an advantage of reviewing the literature through the indices as they offer systematic ways of running keywords. Second, as this review aims to map the literature rather than the evidence provided by the literature, the search is limited with these 'definitive sections' rather than content of the sources themselves. Third, full-text searches bring many irrelevant results as they bring results even if the keywords are used only limited times in the articles. It is not possible to determine the relevance of this use to main topics of the articles.

(4) After compiling the main database, the titles, abstracts and keywords of the sources were coded inductively. The full-texts were skimmed when the content of the sources could not be understood via the abstracts due to unclear abstracts.

(5) In the last phase, the results of the content analysis, distribution of sources and other patterns emerging from the review were analysed and reported. For this phase, the grounded nature of the review was maintained by categorising the inductive codes

according to their frequency of recurrence within the database. The analysis is not only limited by the coded content, but includes a brief analysis of journals publishing on the issues of housing supply, the authors whose publications are recurring more than once in the database and by the timeframe of the publications.

3. Reviewing the Indices and Creating the Main Database

The keywords and queries identified are listed as follows: (housing OR house OR residential OR dwelling OR apartment) AND (supply OR developer OR "house builder" OR housebuilder OR investment OR investors OR "new homes"). Main criteria for identifying these were to keep the scope around housing supply and to reach a manageable set of sources.

The documents indexed by multiple indices were identified in the process of merging results. The multiple records were excluded and one record for each document was kept in the main database. This is mainly done by Endnote 'finding duplicates' function. However, this function is limited and there were still duplicates after automated clearance. The remaining duplicates were manually excluded by the researcher. While excluding the multiple records, the indexed record coming from the broadest index was kept for methodological consistency (see Table 1). As a result, the main database of 361 documents (including journal articles, books, book sections, magazine articles, report, database fact sheets and conference articles) was created.

Index	Keywords	Search fields	Number of documents in the main database / Number of returns produced by queries
Scopus	(housing OR house OR residential OR dwelling OR apartment) AND (supply OR developer OR "house builder" OR housebuilder OR investment OR investors OR "new homes")	title, abstract, keywords	267 / 1234
Web of Science (WoS)	(housing OR house OR residential OR dwelling OR apartment) AND (supply OR developer OR "house builder" OR housebuilder OR investment OR investors OR "new homes")	title, abstract, keywords	44 / 1092
SocIndex	(housing OR house OR residential OR dwelling OR apartment) AND (supply OR developer OR "house builder" OR housebuilder OR investment OR investors OR "new homes")	title, abstract, keywords	50 / 85

Table 1: The number of returns from the indices and their final contribution to the main database

Table 2 demonstrates the main inclusion-exclusion criteria adopted in this literature mapping. These criteria were adopted from the evidence review guidance developed by CaCHE research associates for evidence reviews and literature mapping. The first four criteria (thematic fit and relevance, publication date range, language and country - geographical focus) were applied to this mapping, while other four criteria on research characteristics (participants' characteristics, research setting, methods, and validity thresholds-weighting) were not relevant to the scope of this review.

Inclusion - Exclusion Criteria	Application	Explanation
Thematic fit/relevance	Any aspects of housing supply	Research aim
Publication date range	2005-2018	To include both pre- and post- 2008 crisis
Language	English	Decided by CaCHE
Country / geographical focus	UK	To focus on the UK practice and policy sphere on housing supply
Participants characteristics	NA	Not applicable for rapid coding based on abstract, title, keywords
Research setting	NA	Not applicable for rapid coding based on abstract, title, keywords
Methods	NA	Not applicable for rapid coding based on abstract, title, keywords
Validity thresholds/weighting	NA	Not applicable for rapid coding based on abstract, title, keywords

Table 2: The inclusion-exclusion criteria of the literature mapping

4. Analysing the Review Results

4.1 Distribution of Publication Types, Key Academic Journals and Authors

4.1.1 Publication Types

The sources were not excluded according to the publication type. Any publication type brought by the queries were included in the literature mapping as there is value in each type in order to find out the relevant subthemes within housing supply literature.

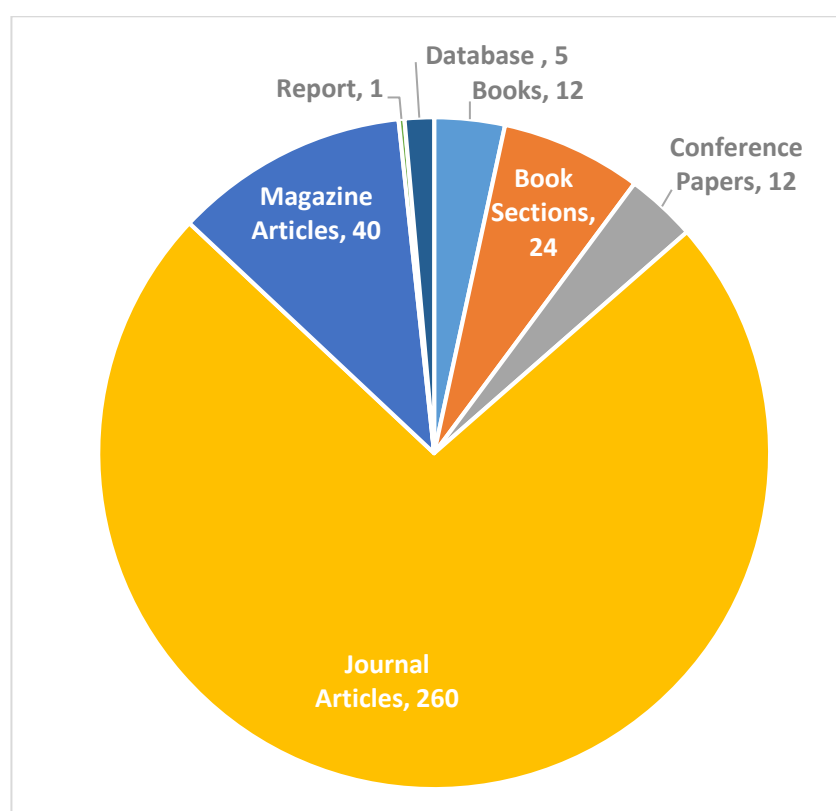


Figure 1: The distribution of the sources according to document types (Type, number of documents)

The grey literature was kept limited to conference proceedings and magazine articles as these are the ones covered by the selected academic indices. Most of the grey literature included in the database is based on Public Finance magazine covered by SocIndex. For any evidence reviews on housing supply (following this literature mapping), the grey literature should be expanded by including industry reports and policy documents in the reviews. However, for the literature mapping, this was not done since the focus of this mapping is the academic literature. The grey literature results were included only for getting the feel of the grey literature in general.

Figure 1 shows the distribution of the publication types within the main database. Almost two third of the sources are academic journal articles, while 11 % of the total sources are magazine articles. Books and books sections are fairly limited comparing with the academic journal articles. While the books are 3% and the book chapter are 7% of the main database, as in total they are only 10% of the total sources reviewed for this literature mapping.

4.1.2 Key Academic Journals and Authors

The journals from which at least 5 articles included in the main database were identified as the key journals. Table 3 shows the list of these journals together with the number of articles and the impact factors of these journals.

The impact of the journals in this list is evaluated through three indicators: the number of articles the journal published on housing supply, the impact factor of the journal and the subject focus.

First, Housing Studies is the leading journal regarding the subject focus with the highest number of articles published on housing supply. While Urban Studies published fewer articles on housing supply than Housing Studies, its impact factor demonstrates a higher impact in general. A general evaluation of the two journals demonstrates that they are two key sources that must be included in any evidence review done on housing supply in the future.

Second, the next journal according to the publication number is the Energy Policy journal, as it is clear with the title, the journal is a topic-specific one. Although it published on the issues of housing supply and has a high impact factor, the inclusion of this journal to an evidence review on housing supply should be re-validated according to subthemes that are to be covered in that particular evidence review.

Third, the Journal of Housing and the Built Environment and Planning Practice and Research journal are listed with 8 articles each. The two journals present similar patterns of publication with the same foundation year and similar impact factors. Regarding also their subject focus, the two journals should be also considered for following evidence reviews as sources of knowledge on the issues of housing supply.

Fourth, International Journal of Housing Markets and Analysis and the Journal of Urban Regeneration and Renewal follow the previous journals. These two journals present a similar pattern of publication and impact. While their impact factors are considerably low comparing the previous journals, both journals have recently founded (2008, 2007 respectively). As a result, they are considered as emerging sources of

knowledge and evidence in this evaluation. Therefore, it is suggested to include these journals in future evidence reviews.

Lastly, the following six journals in the list (Building Research and Information, Construction Management and Economics, Environment and Planning A, Journal of European Real Estate Research, Town Planning Review, Working with Older People) are identified as sources of knowledge and evidence for housing supply, but with only a limited number of contributions. The journals are subject-specific: Building Research and Information is focused on architectural aspects and Town Planning Review on planning. Therefore, the six journals should be taken into consideration according to the subthemes of future evidence reviews. To illustrate, as a result of this literature mapping it is suggested that any evidence review focusing on the generational issues and housing supply should review the Working with Older People journal particularly. This may contribute to the reviews to be as inclusive as possible for subject-specific issues and publications.

Figure 2 also shows the journals with a limited number of contributions in the main database of this literature mapping.

Journals	Number of Articles in the Main Database	Foundation Year the Journal	Number of Issues per Year	Impact Factor - Journal Citation Reports 2016	Notes
Housing Studies	25	1986	8	1.513	Between 1986 - 1997 4 issues per year; then increased gradually.
Energy Policy	14	1974	12	4.140	Between 1974 - 1984 4 issues per year; then increased gradually.
Urban Studies	11	1964	16	2.364	Between 1964 - 1981 3 issues per year; then increased gradually.
Journal of Housing and the Built Environment	8	1986	4	1.178	-
Planning Practice and Research	8	1986	5	0.881 (SJR)	Journal Impact Factor (JIF) is not available, Scimago Journal Rank (SJR) included. Between 1986 - 1987 1 issue per year; then increased gradually.
Int. Journal of Housing Markets and Analysis	7	2008	4	0.227 (SJR)	JIF is not available, SJR included.
Journal of Urban Regeneration and Renewal	7	2007	4	0.236 (SJR)	JIF is not available, SJR included.

Building Research and Information	6	1973	8	3.136	Between 1973 - 2015 6 issues per year; then increased to 8.
Construction Management and Economics	5	1983	12	0.890 (SJR)	JIF is not available, SJR included. Between 1983 - 1986 3 issue per year; then increased gradually.
Environment and Planning A	5	1969	12	1.389	Between 1969 - 1972 3 issues per year; then increased gradually.
Journal of European Real Estate Research	5	2008	3	0.365 (SJR)	JIF is not available, SJR included.
Town Planning Review	5	1910	6	0.614 (SJR)	JIF is not available, SJR included. Between 1910 - 1976 4 issues per year; then increased gradually.
Working with Older People	5	2000	4	0.134 (SJR)	JIF is not available, SJR included.

Table 3 The journals from which at least 5 articles included in the main database

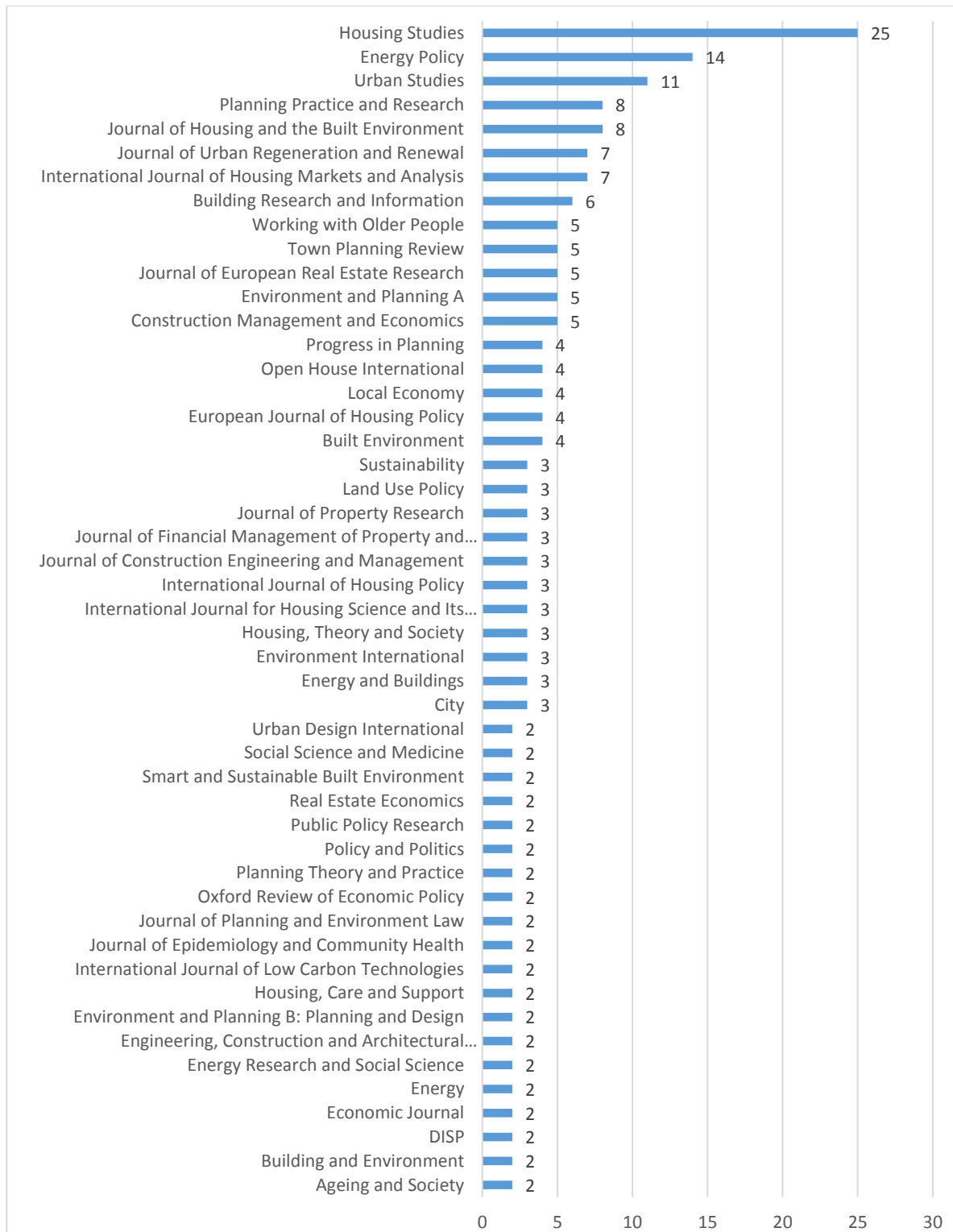


Figure 2: The distribution of the articles according to the journals
 (The journals published at least 2 articles being included in the main database)

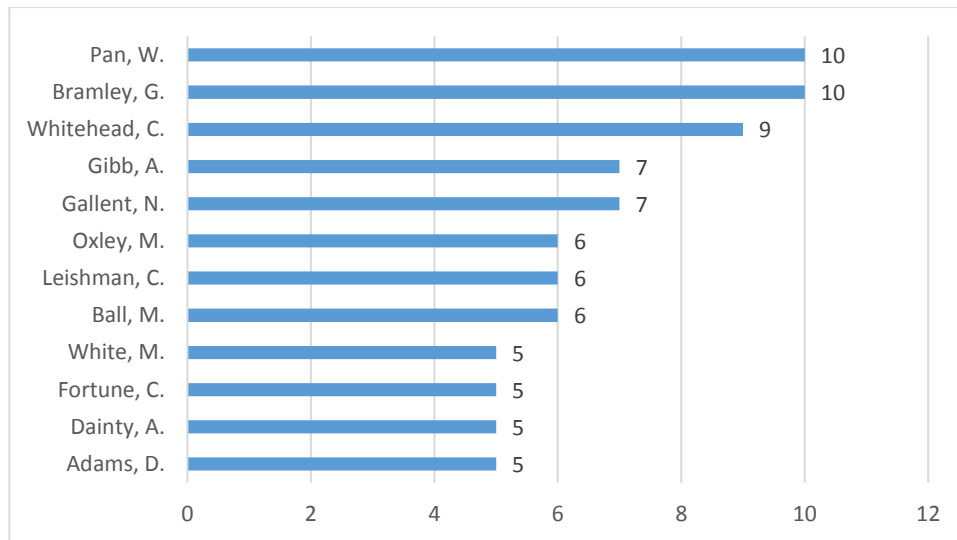


Figure 3: The authors who authored at least five sources in the main database (See Appendix for a full list of authors who authored more than one sources at the main database)

The literature mapping also evaluates the contribution of some leading authors by reviewing the authors of the articles within the main database. Figure 3 shows the researchers who authored 5 or more articles in the main database (as the first or following authors). The mapping does not evaluate further the characteristics of their contributions or subthemes per author, as that is not the intent of this review. Rather, the literature mapping presents the experts and researchers in this theme as a starting point for following reviews. A full list of authors who authored more than one article (journal or magazine) in the main database is provided in the appendix.

4.1.3 Publication Trend

The publication trend over the years was evaluated in order to find out any breaks or milestones in publication trends between 2005 – 2018. However, this analysis is inclusive as no specific patterns were observed. Figure 4 and Figure 5 shows the results of this analysis (per year and per five years respectively). As it is shown, in the first 5-year-period and second 5-year-period, the number of publications is almost the same. In the last period, the graphic only shows the results from last three years, therefore, regarding the average number of publications per year, it is expected to show a similar pattern.

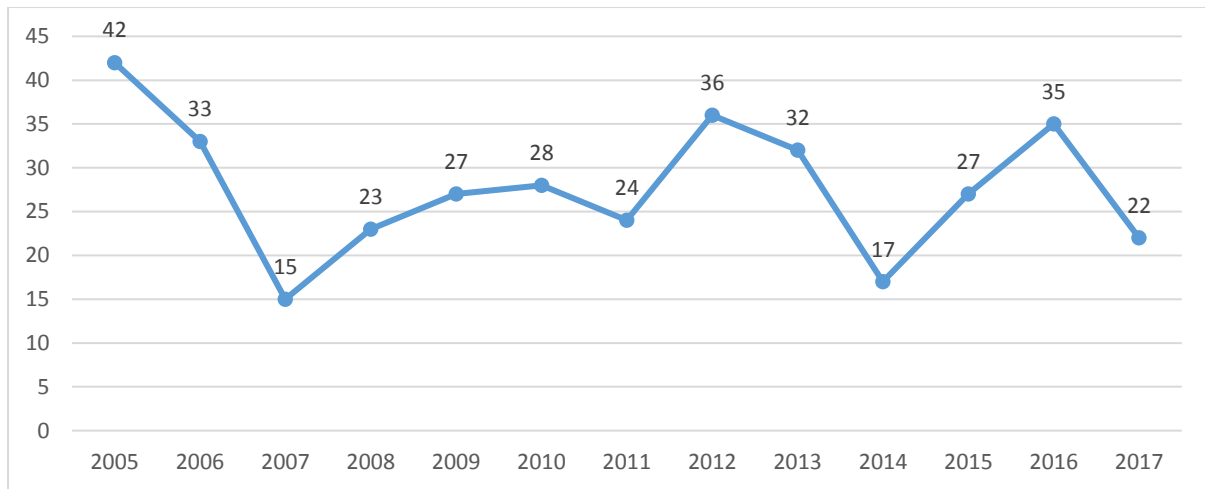


Figure 4: Publication numbers per years in the main database

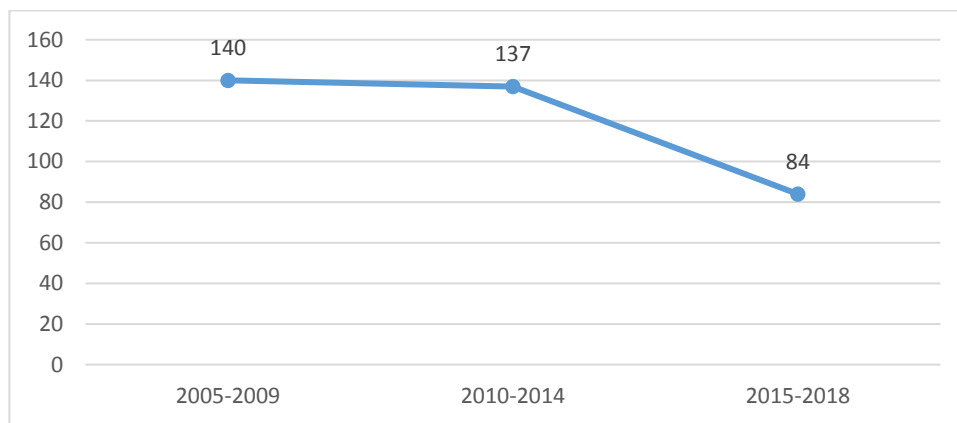


Figure 5: Publication numbers per five years in the main database

Following sections summarise the content analysis of the sources in the main database via rapid coding of their abstracts. An inductive strategy was applied at this stage of the analysis. First, the documents were coded in order to investigate the emerging topics, key concepts and trends in housing supply literature. Second, they are categorised according to the subthemes emerging through these codes.

4.2 Emerging Sub-themes in Housing Supply Literature through the Inductive Coding Results

According to inductive coding, a typology of eight categories is produced focusing on the most frequent sub-themes of the reviewed sample. The categories are identified as follow: housing and planning policy, housing development and regeneration, housing design, construction and quality, new builds, tenure, social and affordable housing, residential developers (private house builders and housing associations), and energy issues. This section summarises the content in general and presents the subthemes within the reviewed sample of the housing supply literature.

4.2.1 Housing Policy and Planning

The analysis found that the housing supply literature engages with policy issues, particularly housing policy. Almost one-third of the documents in the sample engages with policy issues (109 documents in total). Within this set of documents, most of them are on housing policy (99 documents). Some of the sources discuss general issues on housing policy such as the effects of national policy on housing supply. To illustrate, Gallent (2005) discusses the relationship between housing policy and local politics, and regional housing figures. Other sources discuss more specific housing policy issues such as Carter and Fortune's (2007) work on the sustainable development policy and social housing, or Townshend's (2007) paper on the limited numbers of sustainable housing provision in the UK despite the emphasis on sustainability in the policy agenda in this country.

In addition, around one-fifth of the total sources engage with planning (79 sources in total). The engagement with planning is not limited to planning policy; however, also includes planning processes and practices in the UK. To illustrate, Ball et al. (2009) discuss the relationship between planning delays and housing supply, while Barton and Harpham (2010) discuss the evidence-based housing policy in planning.

4.2.2 Housing Development and Regeneration

The analysis found that the housing supply literature engages with housing development and regeneration issues. Almost one-fifth of the documents in the main database engages with housing development (68 documents in total) issues such as development of private residential neighbourhoods (Blandy et al., 2005), development of city centre housing (Barber, 2007), sustainable development policy in social housing development (Carter and Fortune, 2007), or high-rise housing development (Harris, 2008).

In addition, 5% of documents focus on brownfield development (17 documents). For example, Dixon (2008) discusses the issues with, and potential of, brownfield development in the provision of new housing, while Elmer and Dening (2016) examine redevelopment of London council estates as brownfield areas, particularly. Moreover, nearly 6% of the papers are on regeneration (21 documents), such as housing-led regeneration (Egan et al., 2015) or mixed-use regeneration (Ferm and Jones, 2016).

4.2.3 Housing Design, Construction and Quality

The analysis found that the housing supply literature engages with housing design, construction and quality aspects. One-fifth of the documents in the main database deal

with housing design (70 documents in total) such as house types (e.g. Leishman and Warren's (2006) paper on standardised house types)

In addition, the literature also considers housing construction technology and methods (e.g. prefabrication in house construction (Zhao and Riffat, 2007) and off-site construction methods (Pan et al., 2008)); as well as, design quality in relation with housing, such as Punter's (2010) work on housing quality and Madeddu's (2013) paper on urban design and housing quality in private housing schemes.

4.2.4 New Builds

The analysis, unsurprisingly, found that the housing supply literature is concerned with new build housing. More than one-quarter of the total documents in the main database engages with new build housing (95 documents in total). The literature works with the new homes sub-theme in different ways.

The literature first examines the practice of building new homes in the UK (e.g. Adams et al.'s (2009) article on building pace of more homes). Second, housing policy for building more homes is discussed in articles such as Cowans' (2015) work on supplying new homes in the UK. Third, regulations on new builds are conveyed in the housing supply literature, such as the building regulations in energy efficiency (Pan and Garmston, 2012). Lastly, the new technologies in new builds are represented by especially focusing on especially on energy issues such as zero carbon technologies to be implemented in new homes (Bevan and Lu, 2012).

4.2.5 Tenure

The analysis found that the housing supply literature engages with housing tenure. Nearly one-quarter of the total documents in the main database is about tenure (88 documents in total) including home ownership, social rented housing and private rented housing.

First, 6 % of the sources in the main database discuss home ownership, such as Whitehead and Monk's (2011) paper on affordable home ownership after the 2008 financial crisis, or Hilber's (2010) work on the relationship between homeownership and social capital.

Second, provision of rented housing is discussed through works on social housing (55 documents) and private rented housing issues (18 documents). Various aspects of social housing are covered in the literature such as changes in social housing provision (Gibb and Nygaard, 2006), housing stock transfer (Smith, 2006), reforming social housing sector (Turner, 2009) and sustainable development policy in the social housing sector (Carter and Fortune, 2007). Research on private rented housing in

relation with housing supply is more limited comparing to the scope of social housing discussions, whilst various aspects such as private rented housing and affordability (Ball, 2012), private landlords (Lund, 2017) and buy-to-let investments (Gibb and Nygaard, 2005).

4.2.6 Social and Affordable Housing

The analysis found that the housing supply literature engages with social and affordable housing extensively. Nearly one-third of the total documents in the main database concerned, to some extent, social and affordable housing provision (111 documents in total) including social housing, council housing, affordable housing and housing associations.

First, 15% of the total sources in the main database involve various aspects of social housing in relation with housing supply including social housing allocations (Turner, 2009) and variegations within the UK social housing sector (e.g. social housing in Scotland (Robertson and Serpa, 2014) and social housing in England (Whitehead, 2014)).

Second, 15% of the total sources in the main database discuss various aspects of affordability and affordable housing including affordable housing policy, the changing policy landscape under austerity, and the relationship of affordability with housing need and socioeconomics. To illustrate, Morrison and Burgess (2014) discuss the affordable housing policy in England, Mulliner and Maliene (2013) discuss austerity and affordable housing policy, and Bramley (2012) discusses the relationship across affordability, poverty and housing need.

4.2.7 Residential Developers

The analysis indicates that that the housing supply literature engages with the practice of house builders. Nearly one-fifth of the total documents in the main database has a clear relationship with the practice of private house builders (62 documents in total). Two aspects are highlighted in this subtheme as the new-build housing stock by private developers, and emerging construction technologies used by private developers. To illustrate, Fortune and Moohan (2008) discuss new build housing stock in the UK comparatively with other countries, Pan et al. (2007) discuss the use of offsite construction methods by private developers, and Osmani and O'Reilly (2009) discuss zero carbon homes in England from house builders' perspectives.

4.2.8 Energy Issues

The analysis indicates that the housing supply literature engages with energy issues including energy efficiency, zero carbon homes and carbon neutrality policy and CO2

emissions, sustainability, and thermal performance of homes. Nearly one-fifth of the total documents in the main database engage with these aspects (67 documents in total). First, the literature engages with energy and energy efficiency in relation to housing supply. To illustrate, Banfill et al. (2007) discuss energy efficiency in new-builds and Aelenei et al. (2013) discuss designing energy-efficient buildings. Second, zero carbon or carbon neutral homes are discussed in relation with housing supply in the reviewed literature such as carbon-neutral housing in Scotland (Porteous and Menon, 2008), as well as zero carbon technologies in new housing (Bevan and Lu, 2012). Third, the relationship with CO₂ emissions and housing supply is discussed throughout the mapped literature.

4.2.9 Other Aspects

In addition to the discussed sub-themes of the housing supply literature, the following aspects are also discussed, but account for less than 20% of the total database. First, the analysis found that the housing supply literature engages with the aspects of housing finance and investment. Nearly 13% of the total documents in the main database engages with housing finance and investment (46 documents in total), such as Ruddock and Ruddock's (2016) work on the financial and economic challenges of housing provision, or Stephan and Whitehead's (2014) work on the trends in housing finance and policy. Second, the analysis presented that the housing supply literature engages with health and wellbeing of the residents. Around 6% the total documents in the main database engage with health and wellbeing (20 documents in total), while 34 documents discuss generational aspects such as older people, ageing and younger people (around 10% of the total documents). Third, the analysis presented that the housing supply literature engages with land allocation for housing development. Around 5% the total documents in the main database concern land allocation and development issues (18 documents in total) such as Engelsman et al.'s (2016) paper on the community land trusts and Cheshire's (2013) article on land market regulations.

5. Conclusion

This literature mapping focuses on housing supply literature published between 2005 and 2018 in the UK. The timeframe is based on the period before and after the 2008 crash. The mapping inductively analyses various aspects of housing supply literature through related concepts, emerging trends and emerging research interests within this timeframe and this geographical limit. It aims to provide a base for forthcoming evidence reviews under 'Housing Markets' theme in the UK Collaborative Centre for Housing Evidence. In addition, the literature mapping itself provides some valuable results for researchers working on the topic of housing supply by presenting an overview of the recent literature in this research area of urban studies field.

The inductively produced themes confirm the nature of housing supply as a multi-faceted research topic. First, while the literature engages with effects of housing policy and planning in housing supply, it also discusses aspects of residential development and regeneration. Second, the literature engages with issues of types of regeneration, especially brownfield development, in relation to housing supply. Third, housing design, construction methods and technologies as well as the quality of housing and design quality in relation to housing are highlighted in the reviewed literature. In this sub-theme, engagement of the literature with off-site production methods and techniques were identified. Fourth, the new build sector is discussed in relation to various aspects including housing policy for more homes in the UK, the practice of building new homes, and emerging approaches to new builds such as zero carbon homes. Fifth, tenure is a highlighted sub-theme in the reviewed literature including aspects of home ownership, social rented housing and private rented housing in relation to housing supply. Sixth, social and affordable housing is another sub-theme, which is closely related to tenure. However, it is categorised as a sub-theme itself regarding its weight in the literature. Seventh, the practice of private house builders is identified as an emerging sub-theme in the reviewed literature, which engages with the new-build housing stock developed by private developers and emerging construction technologies used by private developers. Finally, energy aspects of housing supply are highlighted and emerge as a sub-theme. The sub-theme engages with various aspects of energy and housing such as energy efficiency, carbon emissions, zero carbon homes and carbon neutrality policy and sustainability, and thermal performance of homes. This is an emerging sub-theme which is expected to be expanded in near future regarding an expanding interest in climate responsive approaches to residential development and construction, increasing importance of energy efficiency in existing and new-build homes, as well as zero carbon homes policy agenda.

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7. Appendixes

APPENDIX 1 – The list of authors who authored more than one source in the main database

Author	Number of documents
Merrick, N. (Grey lit)	22
Bramley, G.	10
Pan, W.	10
Whitehead, C.	9
Gallent, N.	7
Gibb, A.	7
Public Finance (Grey lit)	7
Ball, M.	6
Leishman, C.	6
Oxley, M.	6
Adams, D.	5
Dainty, A.	5
Fortune, C.	5
White, M.	5
Dixon, J.	4
Dixon, T.	4
Field, M.	4
Hilber, C. A. L.	4
Jones, C.	4
Meen, G.	4
Monk, S.	4
Nygaard, C.	4
Robertson, D.	4
Blandy, S.	3
Bradley, Q.	3
Cochrane, A.	3
Crook, T.	3
Davies, M.	3
Hamilton, I.	3
Haslam, R.	3
Kearns, A.	3
Lu, S. L.	3
Maliene, V.	3
McDermott, H.	3
Pawson, H.	3
Payne, S.	3
Russell, V.	3

Satsangi, M.	3
Sexton, M.	3
Sommerville, J.	3
Watkins, D.	3
Watson, M.	3
Whitmarsh, L.	3
Wilkinson, P.	3
Wyatt, P.	3
Allmendinger, P.	2
Bevan, W.	2
Boddy, M.	2
Broer, S.	2
Bruce, N.	2
Burford, N.	2
Burgess, G.	2
Callaghan, N.	2
Chalabi, Z.	2
Cheshire, P.	2
Colenutt, B.	2
Congreve, A.	2
Couch, C.	2
Craig, N.	2
da Rocha, C. G.	2
Denman, A.	2
Dunse, N.	2
Egan, M.	2
Gainsbury, S.	2
Garmston, H.	2
Gibb, K.	2
Gillott, M.	2
Gurran, N.	2
Haffner, M.	2
Haines, A.	2
Higham, A.	2
Hulse, K.	2
Jenkins, D. P.	2
Kemmer, S. L.	2
Kemp, P. A.	2
Lawson, K.	2

Lees, T.	2
Lovell, H.	2
Madeddu, M.	2
Malys, N.	2
Morrison, N.	2
Mullins, D.	2
Nanda, A.	2
Nevin, B.	2
Parsons, D.	2
Petticrew, M.	2
Phillips, P.	2

Poon, J.	2
Punter, J.	2
Stephens, M.	2
Summerfield, A. J.	2
Taltavull de la Paz, P.	2
Tewdwr-Jones, M.	2
Thomas, S.	2
Thomson, H.	2
Titheridge, H.	2
Townshend, T.	2
Williams, J.	2

APPENDIX 2 – The complete list of publications reviewed in the literature mapping

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