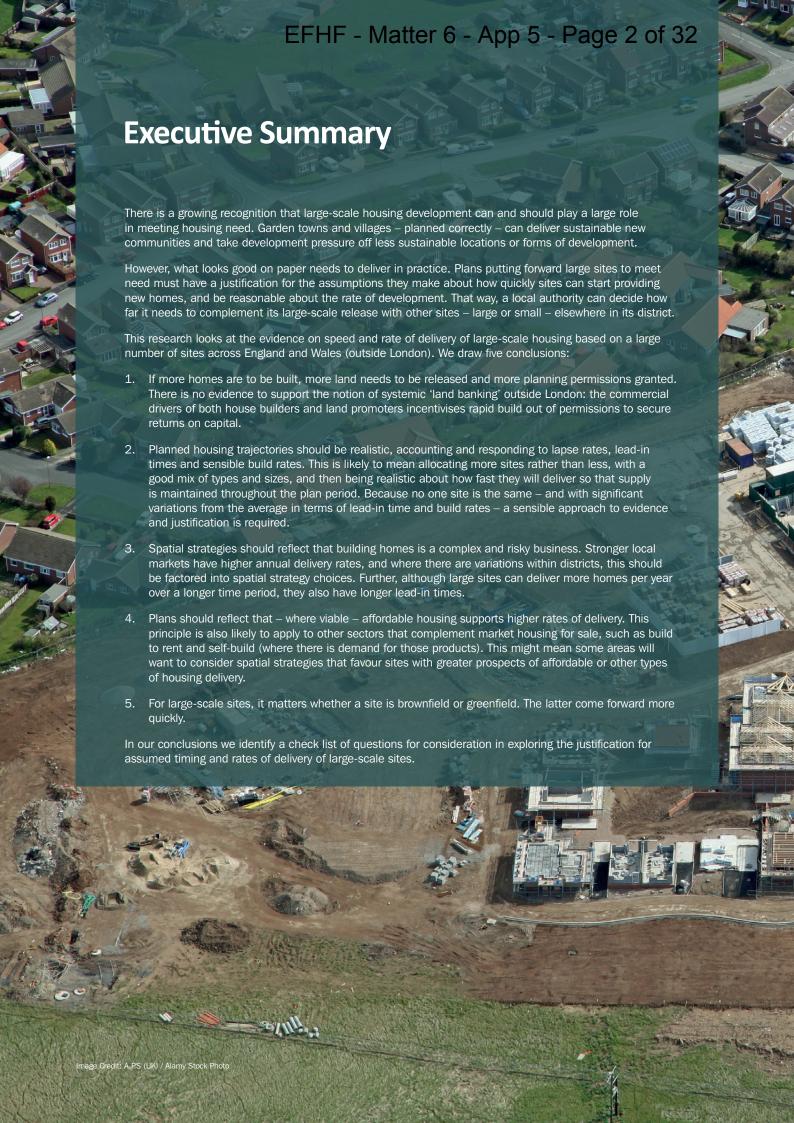


# Start to Finish

How Quickly do Large-Scale Housing Sites Deliver?

November 2016





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#### Introduction

When it comes to housing, Government wants planning to think big. With its Garden Towns and Villages agenda and consultation on proposed changes to the National Planning Policy Framework (NPPF) to encourage new settlements, planning authorities and developers are being encouraged to bring forward large-scale housing development projects, many of them freestanding. And there is no doubt that such projects will be necessary if England is to boost supply and then consistently deliver the 300,000 new homes required each year<sup>1</sup>.

Large-scale sites can be an attractive proposition for plan-makers. With just one allocation of several thousand homes, a district can – at least on paper – meet a significant proportion of its housing requirement over a sustained period. Their scale means delivery of the infrastructure and local employment opportunities needed to sustain mixed communities.

But large-scale sites are not a silver bullet. Their scale, complexity and (in some cases) up-front infrastructure costs means they are not always easy to kick start. And once up and running, there is a need to be realistic about how quickly they can deliver new homes. Past decades have seen too many large-scale developments failing to deliver as quickly as expected, and gaps in housing land supply have opened up as a result.

So, if Local Plans and five year land supply assessments are to place greater reliance on large-scale developments – including Garden Towns and Villages – to meet housing needs, the assumptions they use about when and how quickly such sites will deliver new homes will need to be properly justified.

"Local planning authorities should take a proactive approach to planning for new settlements where they can meet the sustainable development objectives of national policy, including taking account of the need to provide an adequate supply of new homes. In doing so local planning authorities should work proactively with developers coming forward with proposals for new settlements in their area."

DCLG consultation on proposed changes to national planning policy (December 2015)

The Planning Practice Guidance (PPG) offers little guidance other than identifying that timescales and rates of development in land availability assessments should be based on information that "may include indicative lead-in times and build-out rates for the development of different scales of sites. On the largest sites allowance should be made for several developers to be involved. The advice of developers and local agents will be important in assessing lead-in times and build-out rates by year"<sup>2</sup>. It also requires housing land availability assessments to include: "a reasonable estimate of build out rates, setting out how any barriers to delivery could be overcome."<sup>3</sup>

This research provides insights to this topic – which has become a perennial discussion at Local Plan examinations and Section 78 appeals in recent years – by focusing on two key questions:

- what are realistic lead-in times for large-scale housing developments?; and
- once the scheme starts delivering, what is a realistic annual build rate?

NLP has carried out a desk-based investigation of the lead-in times and build-out rates on 70 different strategic housing sites ("large sites") delivering 500 or more homes to understand what factors might influence delivery. For contrast 83 "small sites" delivering between 50 and 499 homes have been researched to provide further analysis of trends in lead in times and build rates at varying scales.

As well as identifying some of the common factors at play during the promotion and delivery of these sites it also highlights that every scheme has its own unique factors influencing its progress: there can be significant variations between otherwise comparable developments, and there is no one 'typical scheme'. This emphasises the importance of good quality evidence to support the position adopted on individual projects.

<sup>&</sup>lt;sup>1</sup> House of Lords Select Committee on Economic Affairs (2016) Building more homes: 1st Report of Session 2016-17 - HL Paper 20

<sup>&</sup>lt;sup>2</sup> PPG ID: 3-023-20140306

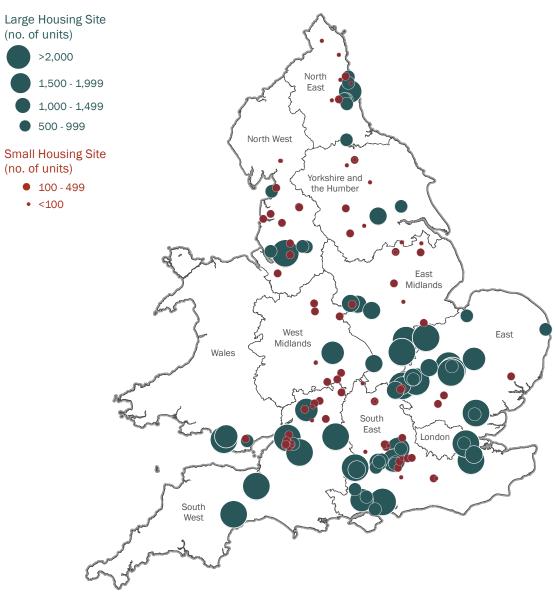
<sup>&</sup>lt;sup>3</sup> PPG ID: 3-028-20140306

## **Data Sources and Methodology**

In total NLP reviewed 70 strategic sites ("large sites") which have delivered, or will deliver, in excess of 500 dwellings. The sites range in size from 504 to 15,000 dwellings. The geographic distribution of the 70 large sites and comparator small sites is set out below in Figure 1. A full list of the large sites can be found in Appendix 1 and the small sites in Appendix 2. NLP focused on sites outside London, due to the distinctive market and delivery factors applicable in the capital.

Efforts were made to secure a range of locations and site sizes in the sample, but it may not be representative of the housing market in England and Wales as a whole and thus conclusions may not be applicable in all areas or on all sites.

Figure 1: Geographic Distribution of the 70 Large Sites and 83 Small Sites Assessed



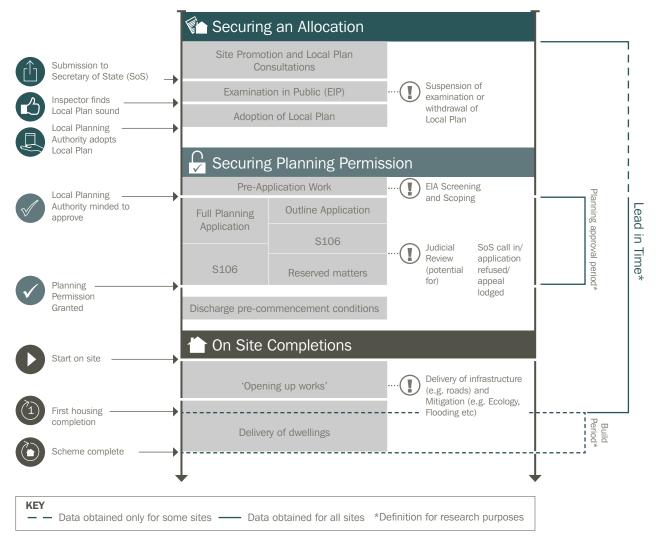
Source: NLP analysis

#### Methodology

The research aims to cover the full extent of the planning and delivery period. So, wherever the information was available, the data collected on each of the 70 sites covers the stages associated with the total lead-in time of the development (including the process of securing a development plan allocation), the total planning approval period, starting works on site, delivery of the first dwelling and the annualised build rates recorded for the development up until to the latest year where data is available (2014/15). To structure the research and provide a basis for standardised measurement and comparison, these various stages (some of them overlapping) have been codified.

Figure 2 sets out the stages and the milestones used to measure them. These are assumed to fall under what are defined as 'lead-in times', 'planning approval periods' and 'build periods', with 'first housing completion' denoting the end of the lead-in time and start of the build period. Not every site assessed will necessarily have gone through each component of the identified stages sequentially, or indeed at all (for example, some sites secure planning permission without first being allocated).

Figure 2: Timeline for the Delivery of a Strategic Housing Site



Source: NLP Start to Finish

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The approach to defining these stages for the purposes of this research is set out below:

- The 'lead-in time' this measures the period up to the first housing completion on site from either a) the date of the first formal identification of the site as a potential housing allocation (e.g. in a LPA policy document) or where not applicable, available or readily discernible b) the validation date of the first planning application made for the scheme.
- The 'planning approval period' is measured from the validation date of the first application for the proposed development (be that an outline, full or hybrid application). The end date is the decision date of the first detailed application which permits the development of dwellings on site (this may be a full or hybrid application or the first reserved matters approval which includes details for housing). The discharge of any pre-commencement and other conditions obviously follows this, but from a research perspective, a measurement based on a detailed 'consent' was considered reasonable and proportionate milestone for 'planning' in the context of this research.
- The date of the 'first housing completion'
  on site (the month and year) is used where the
  data is available. However, in most instances the
  monitoring year of the first completion is all that
  is available and in these cases a mid-point of the
  monitoring period (1st October, falling halfway
  between 1st April and the following 31st March)
  is used.
- The 'annual build rate' falls within the overall 'build period'. The annual build rate of each site is taken or inferred from the relevant Local Planning Authority's Annual Monitoring Reports (AMR) or other evidence based documents where available. In some instances this was confirmed – or additional data provided – by the Local Planning Authority or County Council.

Due to the varying ages of the assessed sites, the implementation of some schemes was more advanced than others and, as a function of the desk-based nature of the research and the vintage of some of the sites assessed, there have been some data limitations, which means there is not a complete data set for every assessed site. For example, lead-in time information prior to submission of planning applications is not available for all sites. And because not all of the sites assessed have commenced housing delivery, annual build rate information is not universal. The results are presented accordingly.



# **Getting Started:**What are Realistic Lead-in Times?

How long does it take for large-scale sites to get up and running? This can be hard to estimate. Understandably, those promoting sites are positive about how quickly they can deliver, and local authorities choosing to allocate large-scale sites in their plans are similarly keen for these sites to begin making a contribution to housing supply. This leads some local housing trajectories to assume that sites can be allocated in Local Plans and all detailed planning approvals secured in double-quick time. However, the reality can prove different.

Our main focus here is on the average 'planning approval period' and the subsequent period from receiving a detailed planning approval to delivery of the first house on site. However, another important metric is how long it takes from the site being first identified by the local authority for housing delivery to getting started on site. Unfortunately, getting accurate data for this on some of the historic sites is difficult, so this analysis is focused on a just 18 of the sample sites where information was available.

#### **Lead-in Times**

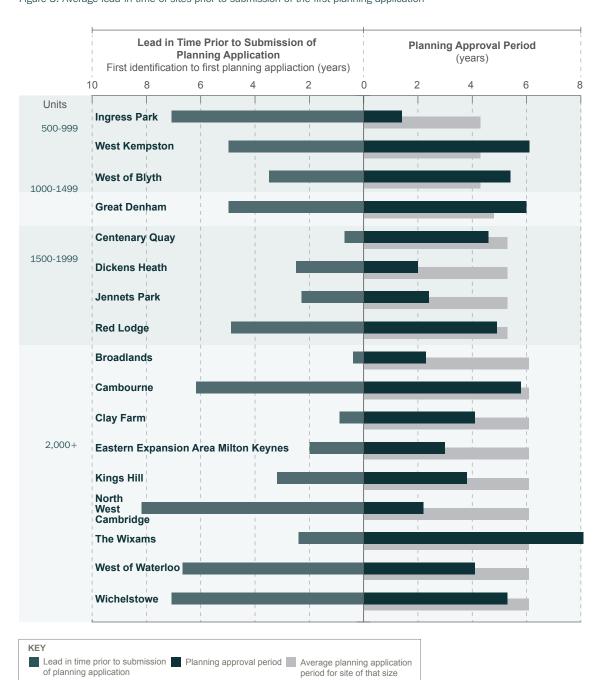
The lead-in time prior to the submission of a planning application is an important factor, because many planning issues are flushed out in advance of planning applications being submitted, not least in terms of local plan allocations establishing the principle of an allocation. In a plan-led system, many large-scale sites will rely on the certainty provided by Local plans, and in this regard, the slow pace of plan-making in the period since the NPPF<sup>4</sup> is a cause for concern.

If the lead-in time prior to submission of an application is able to focus on addressing key planning issues, it can theoretically help ensure that an application – once submitted – is determined more quickly. Our sample of sites that has lead-in time information available is too small to make conclusions on this theory. However, there is significant variation within these sites highlighting the complexity of delivering homes on sites of different sizes. Of this sample of sites: on average it was 3.9 years from first identification of the site for housing to the submission of the initial planning application.

Moreover, a substantial lead-in time does not guarantee a prompt permission: 4 of the 18 sites that took longer to gain planning permission than the average for sites of comparable size and also had lead-in times prior to submission of a planning application of several years<sup>5</sup>.

<sup>&</sup>lt;sup>4</sup> As at September 2016, just 34% of Local Authorities outside London have an up-to-date post-NPPF strategic-level Local Plan. Source: PINS / NLP analysis.

Figure 3: Average lead-in time of sites prior to submission of the first planning application



Source: NLP analysis

## The Planning Approval Period: Size Matters

The term 'planning approval period' in this report measures the period from the validation date of the first planning application for the scheme to the decision date of the first application which permits development of dwellings on site (this could be a full, hybrid or reserved matters application). Clearly, in many cases, this approval will also need to be followed by discharge of pre-commencement conditions (a focus of the Government's Neighbourhood Planning Bill) but these were not reviewed in this research as a detailed approval was considered an appropriate milestone in this context.

The analysis considers the length of planning approval period for different sizes of site, including comparing large-scale sites with small sites. Figure 4 shows that the greater the number of homes on a site, the longer the planning approval period becomes. There is a big step-up in time for sites of in-excess of 500 units.

# Time Taken for First Housing Completion after Planning Approval

Figure 4 also shows the time between the approval of the first application to permit development of dwellings on site and the delivery of the first dwelling (during which time any pre-commencement conditions would also be discharged), in this analysis his is the latter part of the lead in time period. This reveals that the timescale to open up a site following the detailed approval is relatively similar for large sites.

Interestingly, our analysis points to smaller sites taking longer to deliver the first home after planning approval. This period of development takes just over 18 months for small sites of under 500 units, but is significantly quicker on the assessed large-scale sites; in particular, on the largest 2,000+ dwelling sites the period from receiving planning approval to first housing completion was 0.8 years.

In combination, the planning approval period and subsequent time to first housing delivery reveals the total period increases with larger sites, with the total period being in the order of 5.3-6.9 years. Large sites are typically not quick to deliver; in the absence of a live planning application, they are, on average, unlikely to be contributing to five year housing land supply calculations.

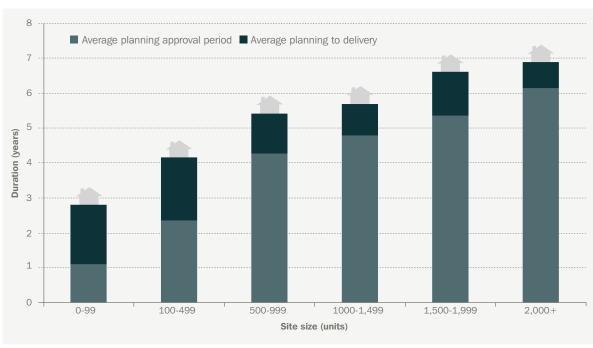
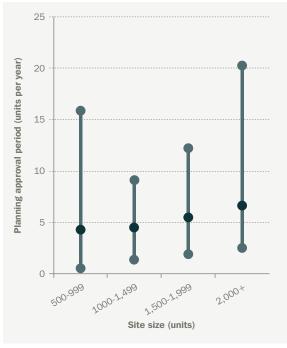


Figure 4: Average planning approval period and delivery of first dwelling analysis by site size

Source: NLP analysis

Of course, these are average figures, and there are significant variations from the mean. Figure 5 below shows the minimum and maximum planning approval periods for sites in each of the large size categories. This shows even some of the largest sites coming forward in under two years, but also some examples taking upwards of 15-20 years. Clearly, circumstances will vary markedly from site to site.

Figure 5: Site size and duration of planning



Source: NLP analysis

#### **Case Studies**

If some sites are coming forward more quickly than the average for sites of that size, what is it that is driving their rapid progress? We explored this with some case studies. These suggest that when schemes are granted planning permission significantly faster than the above averages, it is typically due to specific factors in the lead-in time prior to the submission of a planning application.

# **Gateshead – St James Village** (518 dwellings): Planning approval period 0.3 years<sup>6</sup>

This site was allocated as a brownfield site in the Gateshead UDP (2000) prior to the submission of a planning application for the regeneration scheme. A Regeneration Strategy for East Gateshead covered this site and as at 1999 had already delivered high profile flagship schemes on the water front. Llewelyn Davis were commissioned by the Council and English Partnerships to prepare a masterplan and implementation strategy for the site which was published in June 1999. Persimmon Homes then acquired the site and it was agreed in autumn 1999 that they should continue the preparation of the masterplan. East Gateshead Partnership considered the masterplan on the 08th March 2000 and recommended approval. Subsequently, the outline application (587/00) with full details for phase 1 was validated on the 6th September 2000 and a decision issued on the 9th January 2001.

It is clear that although it only took 0.3 years for the planning application to be submitted and granted for a scheme of more than 500 units, the lead in time to the submission of the application was significant, including an UDP allocation and a published masterplan 18 months ahead of permission being granted. By the time the planning application was submitted most of the site specific issues had been resolved.

<sup>6</sup> St James Village is excluded from the lead-in time analysis because it is unclear on what date the site was first identified within the regeneration area

# **Dartford – Ingress Park (950 dwellings):** Planning approval period 1.4 years

This site was initially identified in a draft Local Plan in 1991 and finally allocated when this was adopted in April 1995. The Ingress Park and Empire Mill Planning Brief was completed in three years later (November 1998).

The submission of the first planning application for this scheme predated the completion of the Planning Brief by a few months, but the Council had already established that they supported the site. By the time the first application for this scheme was submitted, the site had been identified for development for circa seven years.

The outline application (98/00664/OUT) was validated on the 10th August 1998 and permission granted on the 21st Nov 2000, a determination period of 1 year and 3 months). A full application for the First Phase for 52 dwellings (99/00756/FUL) was validated and approved in just two months, prior to approval of the outline. Clearly, large-scale outline permissions have to wrap up a wide range of other issues, but having first phase full applications running in parallel can enable swifter delivery, in situations where a 'bite sized' first phase can be implemented without triggering complex issues associated with the wider site.

# Cambridge and South Cambridgeshire – North West Cambridge (3,000 dwellings and 2,000 student bed spaces): Planning approval period 2.2 years

Cambridge University identified this area as its only option to address its long-term development needs, and the Cambridgeshire and Peterborough Structure Plan 2003 identified the location for release from the Green Belt. The site was allocated in the 2006 Cambridge Local Plan, and the North West Cambridge Area Action Plan was adopted in October 2009. The Area Action Plan established an overall vision and set out policies and proposals to guide the development as a whole.

As such, by the time the first application for this scheme was submitted, there had already been circa eight years of 'pre-application' planning initially concerning the site's release from the Green Belt, but then producing the Area Action Plan which set out very specific requirements.. This 'front-loaded' consideration of issues that might otherwise have been left to a planning application.

The outline application (11/1114/OUT – Cambridge City Council reference) for delivery of up to 3,000 dwellings, up to 2,000 student bed spaces and 100,000 sqm of employment floorspace was validated on the 21st September 2011 and approved on the 22nd of February 2013. The first reserved matters application for housing (13/1400/REM) was validated on the 20th September 2013 and approved on the 19th December 2013. Some ten years from the concept being established in the Structure Plan.

#### **Summary on Lead-in Times**

- 1. On average, larger sites take longer to complete the planning application and lead-in processes than do smaller sites. This is because they inevitably give rise to complex planning issues related to both the principle of development and the detail of implementation.
- 2. Consideration of whether and how to implement development schemes is necessary for any scheme, and the evidence suggests that where planning applications are determined more quickly than average, this is because such matters were substantially addressed prior to the application being submitted, through planmaking, development briefs and/or master planning. There is rarely a way to short-circuit planning.
- 3. Commencement on large sites can be accelerated if it is possible to 'carve-out' a coherent first phase and fast track its implementation through a focused first phase planning application, in parallel with consideration of the wider scheme through a Local Plan or wider outline application.
- 4. After receiving permission, on average smaller sites take longer to deliver their first dwelling than do the largest sites (1.7-1.8 years compared to 0.8 years for sites on 2,000+ units).

## **Lapse Rates: What Happens to Permissions?**

Not every planning permission granted will translate into the development of homes. This could mean an entire site does not come forward, or delivery on a site can be slower than originally envisaged. It is thus not realistic to assume 100% of planning permission granted in any given location will deliver homes. Planning permissions can lapse for a number of reasons:

- The landowner cannot get the price for the site that they want;
- A developer cannot secure finance or meet the terms of an option;
- The development approved is not considered to be financially worthwhile;
- 4. Pre-commencement conditions take longer than anticipated to discharge;
- There are supply chain constraints hindering a start; or
- An alternative permission is sought for the scheme after approval, perhaps when a housebuilder seeks to implement a scheme where the first permission was secured by a land promoter.

These factors reflect that land promotion and housebuilding is not without its risks.

At the national level, the Department for Communities and Local Government has identified a 30-40% gap between planning permissions granted for housing and housing starts on site<sup>7</sup>. DCLG analysis suggested that 10-20% of permissions do not materialise into a start on site at all and in addition, an estimated 15-20% of permissions are re-engineered through a fresh application, which would have the effect of pushing back delivery and/or changing the number of dwellings delivered.

This issue often gives rise to claims of 'land banking' but the evidence for this is circumstantial at best, particularly outside London. The business models of house builders are generally driven by Return on Capital Employed (ROCE) which incentivises a quick return on capital after a site is acquired. This means building and selling homes as quickly as possible, at sales values consistent with the price paid for the land. Land promoters (who often partner with landowners using promotion agreements) are similarly incentivised to dispose of their site to a house builder to unlock their promotion fee. Outside London, the scale of residential land prices has not been showing any significant growth in recent years8 and indeed for UK greenfield and urban land, is still below levels last seen at least 20039. There is thus little to incentivise hoarding land with permission.

The LGA has identified circa 400-500,000 units of 'unimplemented' permissions<sup>10</sup>, but even if this figure was accurate, this is equivalent to just two years of pipeline supply. More significantly, the data has been interpreted by LGA to significantly overstate the number of unimplemented permissions because 'unimplemented' refers to units on sites where either the entire site has not been fully developed or the planning permission has lapsed<sup>11</sup>. It therefore represents a stock-flow analysis in which the outflow (homes built) has been ignored.

Insofar as 'landbanking' may exist, the issue appears principally to be a London – rather than a national – malaise, perhaps reflecting that land values in the capital – particularly in 'prime' markets – have increased by a third since the previous peak of 2007. The London Mayor's 'Barriers to Housing Delivery – Update' of July 2014 looked at sites of 20 dwellings or more and reported that only about half of the total number of dwellings granted planning permission every year are built (Table 3); a lapse rate of circa 50% across London.

Clearly, the perceived problem of landbanking is seeing policy attention from Government, but caution is needed that any changes do not result in unintended consequences or act as a disincentive to secure planning permissions.

A more practical issue is that Plans and housing land trajectories must adopt sensible assumptions, based on national benchmarks, or – where the data exists – local circumstances, to understand the scale of natural non-implementation.

 $<sup>^{\</sup>rm 7}$  DCLG Presentations to the HBF Planning Conference (September 2015)

<sup>8</sup> Knight Frank Residential Development Land Index Q1 2016 http://content.knightfrank.com/research/161/documents/en/q1-2016-3844.pdf

<sup>&</sup>lt;sup>9</sup> Savills Development Land Index http://www.savills.co.uk/research/uk/residential-research/land-indices/development-land-index.aspx

<sup>&</sup>lt;sup>10</sup> Glenigan data as referenced by Local Government Association in its January 2016 media release (a full report is not published) <a href="http://www.local.gov.uk/web/guest/media-releases/-/journal\_content/56/10180/7632945/NEWS">http://www.local.gov.uk/web/guest/media-releases/-/journal\_content/56/10180/7632945/NEWS</a>

 $<sup>^{11}</sup>$  This would mean that a site which has  $\overline{
m b}$ uilt 99% of homes will still show up as 100% of units being 'unimplemented'

## **Build Rates: How Fast Can Sites Deliver?**

The rate at which sites deliver new homes is a frequently contested matter at Local Plan examinations and during planning inquiries considering five year housing land supply. Assumptions can vary quite markedly and expectations have changed over time: in 2007, Northstowe – the new settlement to the north west of Cambridge – was expected by the Council to deliver 750-850 dwellings per annum<sup>12</sup>; it is now projected to deliver at an annual rate of just 250<sup>13</sup>.

There is a growing recognition that the rate of annual delivery on a site is shaped by 'absorption rates': a judgement on how quickly the local market can absorb the new properties. However, there are a number of factors driving this for any given site:

- the strength of the local housing market;
- the number of sales outlets expected to operate on the site (ie the number of different house builders or brands/products being delivered); or
- the tenure of housing being built. Are market homes for sale being supplemented by homes for rent, including affordable housing?

The analysis in this section explores these factors with reference to the surveyed sites.

#### **Market Strength**

It might seem a truism that stronger market demand for housing will support higher sales and build rates – but how far is that the case and how to measure it?

Figure 6 below compares CLG data on post-permission residential land value estimates (£/ha) by Local Authorities in  $2014^{14}$  to the average build out rate of each of the assessed strategic sites. Unfortunately the residential land value estimates are only available for England and as such the Welsh sites assessed are excluded, leaving 57 sites in total

The analysis shows that markets matter. Relatively weaker areas may not be able to sustain the high build-out rates that can be delivered in stronger markets with greater demand for housing. There are significant variations, reflecting localised conditions, but the analysis shows a clear relationship between the strength of the market in a Local Authority area and the average annual build rates achieved on those sites. Plan makers should therefore recognise that stronger local markets can influence how quickly sites will deliver.

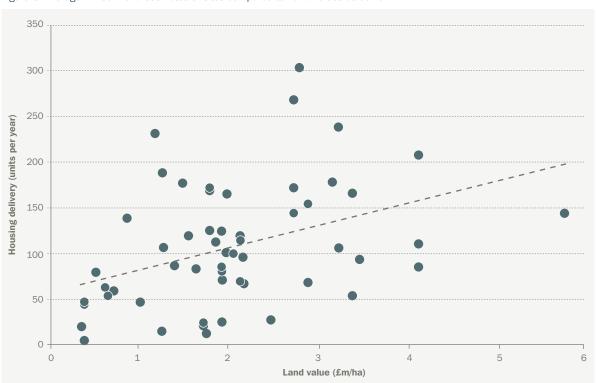


Figure 6: Average Annual Build-out Rates of sites compared to Land Values as at 2014

Source: NLP analysis and CLG Post-permission residential land value estimates (£/ha) by Local Authorities (February 2015)

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<sup>12</sup> South Cambridgeshire Annual Monitoring Report 2006/07

<sup>&</sup>lt;sup>13</sup> South Cambridgeshire Annual Monitoring Report 2014/15

<sup>&</sup>lt;sup>14</sup> Post-permission residential land value estimates were released in December 2015, however the end date of the build rate data obtained is 2014/15; as such land value estimates at February 2015 are better aligned to the build periods assessed in this report and have been used for consistency.

#### **Size Matters**

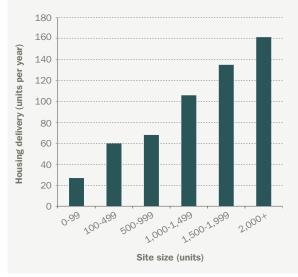
A key metric for build rates on sites is the number of sales outlets. Different housebuilders will differentiate through types or size of accommodation and their brands and pricing, appealing to different customer types. In this regard, it is widely recognised that a site may increase its absorption rate through an increased number of outlets.

Unfortunately, data limitations mean that the number of outlets is not readily available for the large sites surveyed within this research, and certainly not on any longitudinal basis which is relevant because the number of outlets on a site may vary across phases.

However, it is reasonable to assume that larger sites are likely to feature more sales outlets and thus have greater scope to increase build rates. This may relate to the site being more geographically extensive: with more access points or development 'fronts' from which sales outlets can be driven. A large urban extension might be designed and phased to extend out from a number of different local neighbourhoods within an existing town or city, with greater diversity and demand from multiple local markets.

Our analysis supports this concept: larger sites deliver more homes each year, but even the biggest schemes (those with capacity for 2,000 units) will, on average, deliver fewer than 200 dwellings per annum, albeit their average rate – 161 units per annum – is six times that of sites of less than 100 units (27 units per annum).

Figure 7: Average annual build rate by site size



Start to Finish

Source: NLP analysis

Of course, these are average figures. Some sites will see build rates exceeding this average in particular years, and there were variations from the mean across all categories (see Figure 8), suggesting that higher or lower rates than this average may well be possible, if circumstances support it.

Nevertheless, it is striking that annual average delivery on sites of up to 1,499 units barely exceeds 100 units per annum, and there were no examples in this category that reached a rate of 200 per annum. The highest rate – of 321 units per annum – is for the Cranbrook site, but this is a short term average. A rate of 268 per annum was achieved over a longer period at the Eastern Expansion Area (Broughton Gate & Brooklands) site in Milton Keynes. The specific circumstance surrounding the build rates in both these examples are explored as case studies opposite. It is quite possible that these examples might not represent the highest rate of delivery possible on large-scale sites in future, as other factors on future sites might support even faster rates.

Our analysis also identifies that, on average, a site of 2,000 or more dwellings does not deliver four times more dwellings than a site delivering between 100 and 499 homes, despite being at least four times the size. In fact it only delivers an average of 2.5 times more houses. This is likely to reflect that:

- it will not always be possible to increase the number of outlets in direct proportion to the size of site – for example due to physical obstacles (such as site access arrangements) to doing so; and
- overall market absorption rates means the number of outlets is unlikely to be a fixed multiplier in terms of number of homes delivered.

Figure 8: Average annual build-out rate by site size, including the minimum and maximum averages within each site size



Source: NLP analysis

#### **Cranbrook: East Devon**

The highest average annual build out rates recorded in this analysis comes from the Cranbrook site in East Devon where an average of 321 dwellings per annum were delivered between 2012/13 and 2014/15. Delivery of housing only started on this site in 2012/13, with peak delivery in 2013/14 of 419 dwellings.

Cranbrook is the first new standalone settlement in Devon for centuries and reportedly – according to East Devon Council – the result of over 40 years of planning (this claim has not been substantiated in this research). It is the circumstances surrounding its high annual delivery rate which is of most interest, however.

Phase 1 of the development was supported by a £12 million repayable grant from a revolving infrastructure fund managed by the Homes and Communities Agency. The government also intervened again in the delivery of this site by investing £20 million for schools and infrastructure to ensure continuity of the scheme, securing the delivery of phase 2. The government set out that the investment would give local partners the confidence and resources to drive forward its completion.

The Consortium partnership for Cranbrook (including Hallam Land, Persimmon Homes (and Charles Church) and Taylor Wimpey) stated the following subsequent to the receipt of the government funding<sup>15</sup>.

"Without this phase 2 Cranbrook would have been delayed at the end of phase 1, instead, we have certainty in the delivery of phase 2, we can move ahead now and commit with confidence to the next key stages of the project and delivering further community infrastructure and bringing forward much needed private and affordable homes".

Clearly, the public sector played a significant role in supporting delivery. The precise relationship between this and the build rate is unclear, but funding helped continuity across phases one and two of the scheme. More particularly, the rate of delivery so far achieved relates just to the first three years, and there is no certainty that this high build-out rate will be maintained across the remainder of the scheme.

# Eastern Expansion Area (Broughton Gate & Brooklands): Milton Keynes

The second highest average build out rates recorded in this analysis comes from the Eastern Expansion Area (Broughton Gate & Brooklands) site in Milton Keynes where an average of 268 dwellings per annum were delivered between 2008/09 and 2013/14. As is widely recognised, the planning and delivery of housing in Milton Keynes is distinct from almost all the sites considered in this research.

Serviced parcels with the roads already provided were delivered as part of the Milton Keynes model and house builders are able to proceed straight onto the site and commence delivery. This limited the upfront site works required and boosted annual build rates. Furthermore, there were multiple outlets building-out on different serviced parcels, with monitoring data from Milton Keynes Council suggesting an average of c.12 parcels were active across the build period. This helped to optimise the build rate.

 $<sup>^{15}\</sup> https://www.gov.uk/government/news/government-funding-to-unlock-delivery-of-12-000-new-homes$ 

#### **Peak Years of Housing Delivery**

Of course, rates of development on sites will ebb and flow. The top five peak annual build-out rates achieved across every site assessed are set out in Table 1 below. Four of the top five sites with the highest annual peak delivery rates are also the sites with the highest annual average build out rates (with the exception of Broughton & Atterbury). Peak build rates might occur in years when there is an overlap of multiple outlets on phases, or where a particular phase might include a large number of affordable or apartment completions. It is important not to overstress these individual years in gauging build rates over the whole life of a site.

Table 1: Peak annual build-out rates compared against average annual delivery rates on those sites

Scheme	Peak Annual Build-Out Rate	Annual Average Build-Out Rate
Cambourne	620	239
Hamptons	548	224
Eastern Expansion Area	473	268
Cranbrook	419	321
Broughton	409	171

Source: NLP analysis and various AMRs

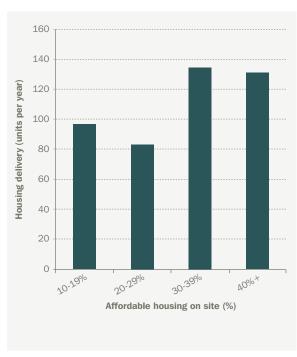
#### **Affordable Housing Provision**

Housing sites with a larger proportion of affordable homes (meeting the definition in the NPPF) deliver more quickly, where viable. The relationship appears to be slightly stronger on large-scale sites (500 units or more) than on smaller sites (less than 500 units), but there is a clear positive correlation (Figure 9). For both large and small-scale sites, developments with 40% or more affordable housing have a build rate that is around 40% higher compared to developments with 10-19% affordable housing obligation.

The relationship between housing delivery and affordable (subsidised) housing is multi-dimensional, resting on the viability, the grant or subsidy available and the confidence of a housing association or registered provider to build or purchase the property for management. While worth less per unit than a full-market property, affordable housing clearly taps into a different segment of demand (not displacing market demand), and having an immediate purchaser of multiple properties can support cash flow and risk sharing in joint ventures. However, there is potential that starter homes provided in lieu of other forms of affordable housing may not deliver the same kind of benefits to speed of delivery, albeit they may support viability overall.

This principle – of a product targeting a different segment of demand helping boost rates of development – may similarly apply to the emergent sectors such as 'build-to-rent' or 'self build' in locations where there is a clear market for those products. Conversely, the potential for starter homes to be provided in lieu of other forms of affordable housing may overlap with demand for market housing on some sites, and will not deliver the kind of cash flow / risk sharing benefits that comes from disposal of properties to a Registered Provider.

Figure 9: Affordable housing provision and housing output



Source: NLP analysis

#### The Timeline of the Build-out Period

Many planners' housing trajectories show large sites gradually increasing their output and then remaining steady, before tailing off at the end. In fact, delivery rates are not steady. Looking at the first eight years of development – where the sample size of large sites is sufficiently high – NLP's research showed that annual completions tended to be higher early in the build-out period before dipping (Figure 10).

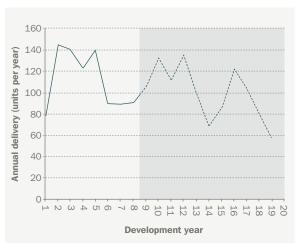
For sites with even longer build out periods, this pattern of peaks and troughs is potentially repeated again (subject to data confidence issues set out below). This surge in early completions could reflect the drive for

Start to Finish

rapid returns on capital in the initial phase, and/or early delivery of affordable housing, with the average build rate year by year reducing thereafter to reflect the optimum price points for the prevailing market demand. Additionally, the longer the site is being developed, the higher the probability of coinciding with an economic downturn – obviously a key factor for sites coming forward over the past decade – which will lead to a reduction in output for a period.

Our sample of sites where the development lasted for more than eight years is too small to draw concrete findings, but it does flag a few other points. On extremely large sites that need to span more than a decade, the development will most likely happen in phases. The timing and rate of these phases will be determined by a range of factors including: the physical layout of the site, the ability to sell the homes; trigger points for payment for key social and transport infrastructure obligations; the economic cycle; and local market issues. Predicting how these factors combine over a plan period is self-evidently difficult, but plan makers should recognise the uncertainty and build in flexibility to their housing trajectories to ensure they can maintain housing supply wherever possible.

Figure 10: Average annual build-out rate per year of the build period



Source: NLP analysis

#### **Summary**

- There is a positive correlation between the strength of the market (as measured by residential land values) and the average annual build rates achieved.
- 2. The annual average build-rate for the largest sites (of 2,000 or more units) is circa 161 dwellings per annum
- 3. The rate of delivery increases for larger schemes, reflecting the increased number of sales outlets possible on large sites. However, this is not a straight line relationship: on average, a site of 2,000 units will not, deliver four times as fast as a site of 500. This reflects the limits to number of sales outlets possible on a site, and overall market absorption rates.
- 4. There is significant variation from the average, which means some sites can be expected to deliver more (or less) than this average. However, the highest average build-out rate of all the assessed sites is 321 dwellings per annum in Cranbrook. But this relates to just three years of data, and the scheme benefitted from significant government funding to help secure progress and infrastructure. Such factors are not be present in all schemes, and indeed, the data suggests sites tend to build at a higher rate in initial years, before slowing down in later phases.
- 5. Build rates on sites fluctuate over their life. The highest build rate recorded in a single year is 620 units at Camborne, but for the duration of the development period the average annual build rate is 239 dwellings.
- 6. There is a positive correlation between the percentage of affordable homes built on site and the average annual delivery of homes with sites delivering 30% or more affordable housing having greater annual average build rates than sites with lower affordable housing provision. The introduction of different tenures taps into different market segments, so a build to rent product may similarly boost rates of delivery where there is a market for it but starter homes may have the opposite effect if they are provided in lieu of other forms of affordable homes, and displace demand for cheaper market homes.

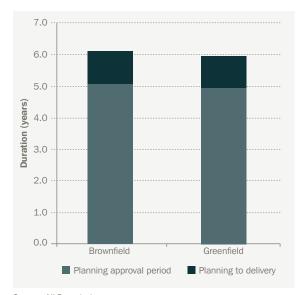
Start to Finish

## A Brownfield Land Solution?

The NPPF encourages the effective use of previously-developed land, and recent Government announcements suggest increased prioritisation of development for brownfield sites. Efforts to streamline the planning process for brownfield sites may also speed up their delivery. But, is there a difference in how quickly brownfield sites can come forward compared to greenfield sites?

Research produced by CPRE and Glenigan in March  $2016^{16}$  suggested that the time between planning permission being granted and construction work starting is generally the same for brownfield and greenfield sites, but suggested that work on brownfield sites is completed more than six months quicker. However, it was not clear if this finding was because the greenfield sites were larger than the equivalent brownfield sites surveyed in that study. We therefore looked at how lead in times and build rates compared for large-scale sites of 500+ dwellings on greenfield and brownfield sites.

Figure 11: Previous land use and duration of planning



Source: NLP analysis

#### **The Planning Approval Period**

Whether land is brownfield or greenfield does not impact on the planning approval period. On average, for all sites, the planning approval period for the sites delivering 500 dwellings or more is almost identical at 5.1 years for brownfield and 5.0 years for greenfield – see Figure 11, although this is skewed by the very largest sites of 2,000+ units (see Table 2), with brownfield sites in the smaller-size bands being on average slightly quicker than their greenfield counterparts (albeit caution is required given the small sample size for some size bandings).

What the analysis tends to show is that it is the scale of development – rather than the type of land – which has the greatest impact on the length of planning process, and that despite government prioritisation on brownfield land in the NPPF, this is unlikely to result in significant further improvements in timescales for delivery.

The time period between gaining a planning approval and the first delivery of a dwelling is also similar overall.

Table 2: Previous land use and duration of planning approval period

	Site Size (dwellings)	Number of sites in this group	Average Planning Approval Period
SS	500-999	14	4.5
Sites	1,000-1,499	9	5.3
field	1,500-1,999	7	5.5
Greenfield	2,000+	13	5.0
ତ୍ର	Total/Average	43	5.0
S	500-999	16	4.1
Sites	1,000-1,499	3	3.3
field	1,500-1,999	1	4.6
Brownfield	2,000+	7	8.6
面	Total/Average	27	5.1

Source: NLP analysis

 $<sup>^{\</sup>rm 16}$  Brownfield comes first: why brownfield development works CPRE, March 2016

#### **Build-out Rates**

There is a more discernible difference between brownfield and greenfield sites when it comes to the annual build out rates they achieve, with the analysis in Figure 12 suggesting that brownfield sites on average deliver at lower rates than their greenfield counterparts, both overall and across the different size bandings (see Table 3) albeit recognising the small sample size for some sizes of site. On average, the annual build-out rate of a greenfield site is 128 dwellings per annum, around 50% higher than the 83 per annum average for brownfield sites.

This may reflect that brownfield sites carry extra costs (e.g. for remediation) which reduces the scale of contribution they make to infrastructure and affordable housing provision (which as shown can boost rates of delivery).

Figure 12: Previous land use and housing delivery

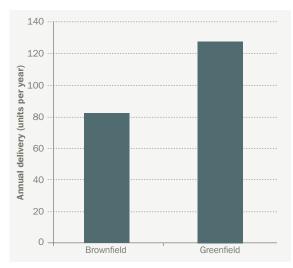


Table 3: Previous land use by size and average annual build out rate

	Site Size (dwellings)	Number of sites in this group	Average Annual Build-out Rate
SS	500-999	14	86
Sites	1,000-1,499	9	122
field	1,500-1,999	7	142
Greenfield	2,000+	13	171
ගි	Total/Average	43	128
S	500-999	16	52
Sites	1,000-1,499	3	73
field	1,500-1,999	1	84
Brownfield	2,000+	7	148
ā	Total/Average	27	83

Source: NLP analysis

Source: NLP analysis

#### **Summary**

- Brownfield and greenfield sites come forward at broadly similar rates, although at the smaller end of the scale, there does appear to be some 'bonus' in speed of decisions for previously-developed land. For the largest sites (of 2,000+ units) the sample of brownfield sites suggests an extended time period (3.6 years longer) compared to their equivalent greenfield sites;
- 2. Once started, large-scale greenfield sites do deliver homes at a more rapid rate than their brownfield equivalents, on average 50% quicker.

#### **Conclusion**

There is a growing recognition that large-scale housing development can and should play a large role in meeting housing need. Garden towns and villages – planned correctly – can deliver sustainable new communities and take development pressure off less sustainable locations or forms of development.

However, if planners are serious about wanting to see more homes built each year and achieve the government's target of one million by 2020 (or indeed, deliver the 300,0000 per annum that are needed), simply allocating a site or granting a permission is not enough. The Government recognises this: the Minister for Planning has been quoted as saying that "you cannot live in a planning permission".

Part of the debate has focused on perceptions of 'land banking' – the concept that developers are hoarding land or slowing down development. Equally, suggestions have been made that proposals for large-scale development should be 'protected' from competition from smaller sites or from challenge under five year land supply grounds. The evidence supporting these propositions appears limited.

In our view the real concern – outside London, at any rate – is ensuring planning decisions (including in plan-making) are driven by realistic and flexible housing trajectories in the first place, based on evidence and the specific characteristics of individual sites and local markets

Based on the research in this document, we draw five conclusions on what is required:

If more homes are to be built, more land needs
to be released and more planning permissions
granted. Confidence in the planning system relies
on this being achieved through local plans that
must be sufficiently ambitious and robust to meet
housing needs across their housing market areas.
But where plans are not coming forward as they
should, there needs to be a fall-back mechanism
that can release land for development when it is
required.

- 2. Planned housing trajectories should be realistic, accounting and responding to lapse rates, lead-in times and sensible build rates. This is likely to mean allocating more sites rather than less, with a good mix of types and sizes, and then being realistic about how fast they will deliver so that supply is maintained throughout the plan period. Because no one site is the same and with significant variations from the average in terms of lead-in time and build rates a sensible approach to evidence and justification is required.
- 3. Spatial strategies should reflect that building homes is a complex and risky business. Stronger local markets have higher annual delivery rates, and where there are variations within districts, this should be factored into spatial strategy choices. Further, although large sites can deliver more homes per year over a longer time period, they also have longer lead-in times. To secure short-term immediate boosts in supply as is required in many areas a good mix of smaller sites will be necessary.
- 4. Plans should reflect that where viable affordable housing supports higher rates of delivery. This principle is also likely to apply to other sectors that complement market housing for sale, such as build to rent and self-build (where there is demand for those products). Trajectories will thus need to differentiate expected rates of delivery to respond to affordable housing levels or inclusion of other market products. This might mean some areas will want to consider spatial strategies that favour sites with greater prospects of affordable or other types of housing delivery. This plays into the wider debate about support for direct housing delivery for rent by local government and housing associations and ensuring a sufficient product mix on sites.
- 5. Finally, in considering the pace of delivery, large-scale brownfield sites deliver at a slower rate than do equivalent greenfield sites. The very largest brownfield sites have also seen very long planning approval periods. Self-evidently, many brownfield sites also face barriers to implementation that mean they do not get promoted in the first place. In most locations outside our biggest cities, a good mix of types of site will be required.

# A Checklist for Understanding Large-scale Site Delivery

In setting or assessing reasonable housing trajectories for local plans or five year housing land supply, the leadin times and average rates of housing delivery identified in this research can represent helpful benchmarks or rules of thumb, particularly in situations where there is limited local evidence.

However, these rules of thumb are not definitive. It is clear from our analysis that some sites start and deliver more quickly than this average, whilst others have delivered much more slowly. Every site is different.

In considering the evidence justifying the estimated time and rate of delivery, the questions listed in Table 4 below represent a checklist of questions that are likely to be relevant:

Table 4: Questions to consider on the speed of housing delivery on large-scale sites

Lea	d-in times to getting started on site	Fac	tors affecting the speed of build out rate
~	Is the land in existing use?	~	How large is the site?
<b>Y</b>	Has the land been fully assembled?  If in multiple ownership/control, are the interests of all	~	Will the scale, configuration and delivery model for the site support more sales outlets?
	parties aligned?	<b>Y</b>	How strong is the local market?
~	To what extent is there any challenge to the principle of development?	~	Does the site tap into local demand from one or more existing neighbourhoods?
~	Is the site already allocated for development? Does it need to be in order for release?	~	Is the density and mix of housing to be provided consistent with higher rates of delivery?
~	Does an SPD, masterplan or development brief help resolve key planning issues?	<b>Y</b>	What proportion of affordable housing is being delivered?  Are there other forms of housing – such as build to rent –
<b>~</b>	Is the masterplan/development brief consistent with what the developer will deliver?	~	included?  When will new infrastructure – such as schools – be
~	Is there an extant planning application or permission?	•	provided to support the new community?
~	Are there significant objections to the proposal from local residents?	~	Are there trigger points or phasing issues that may affect the build rate achievable in different phases?
~	Are there material objections to the proposal from statutory bodies?		
~	Are there infrastructure requirements – such as access – that need to be in place before new homes can be built?		
~	Are there infrastructure costs or other factors that may make the site unviable?		
~	Does the proposal rely on access to public resources?		
<b>Y</b>	If planning permission is secured, is reserved matters approval required?		
~	Does the scheme have pre-commencement conditions?		
~	Is the scheme being promoted by a developer who will need time to dispose of the site to a house builder?		

# **Appendix 1: Large Sites Reviewed**

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Year of first	housing completion	2006/07	N/A	2000/01	2013/14	N/A	1989/90	N/A	2001/02	2006/07	2005/06	2003/04	2010/11	N/A	2008/09	1996/97	2008/09	2007/08	2010/11	2006/07	2006/07	2011/12	2000/01	2007/08	2004/05
	Previous Use	Greenfield	Brownfield	Brownfield	Brownfield	Brownfield	Greenfield	Greenfield	Brownfield	Brownfield	Greenfield	Brownfield	Brownfield	Greenfield	Greenfield	Brownfield	Brownfield	Brownfield	Greenfield	Greenfield	Greenfield	Greenfield	Greenfield	Brownfield	Greenfield
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local	Planning Authority	South Gloucestershire	Chelmsford	Gateshead	Knowlsey	Trafford	Hart	Trafford	Gateshead	Lancaster	Northumberland	Gateshead	Gosport	Great Yarmouth	Northumberland	Gateshead	York	<b>Bracknell Forest</b>	Bedford	Basingstoke & Deane	Eastleigh	Test Valley	Basingstoke & Deane	Cardiff	Basingstoke & Deane
	Site Name	Land at Siston Hill	University Campus Chelmsford	St. James Village	Thingwall Lane	Pamona Docks	Velmead Farm	Land adjoining Manchester Ship Canal	Ochre Yards	Former Pontins Holiday Camp	Land south of Wansbeck General Hospital	Staiths South Bank	Rowner Renewal Project	South Bradwell (Phase 1)	Land at West Blyth	Northside	Hungate	The Parks	West of Kempston	Land at Popley Fields	Dowds Farm	Abbotswood	Kempshott Park	Prospect Place	Taylors Farm/ Sherfield Park

	Local			Year of first								ш	<b>Build Rates</b>	ites								
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Queen Elizabeth II Barracks	Hart	872	Brownfield	2012/13	56	165	}															
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Nar Ouse Millenium Commuity	Kings Lynn and West Norfolk	006	Brownfield	2007/08	32	77	0	0	0	0 30	0 24											
Ingress Park	Dartford	950	Brownfield	2002/03	184	}	275 1	100 7	74 0	0 119	0 6:	0										
North of Popley	Basingstoke & Deane	950	Greenfield	2007/08	65	22	16	28	0	0 15	5 118	~										
Monksmoor Farm	Daventry	1,000	Greenfield	2013/14	14	}																
Boulton moor	South Derbyshire	1,058	Greenfield	N/A																		
Picket Twenty	Test Valley	1,200	Greenfield	2011/12	147	178	180	176														
Staynor Hall	Selby	1,200	Brownfield	2005/06	12	141	115	10 4	43 6	62 46	5 59	79	162									
Highfields Farm	South Derbyshire	1,200	Greenfield	N/A																		
Melton Road	Rushcliffe	1,200	Greenfield	N/A																		
Broughton (Broughton & Atterbury)	Milton Keynes	1,200	Green field	2003/04	114	105	170 4	409 20	204 18	180 18	0											
Holborough Quarry	Tonbridge and Malling	1,211	Brownfield	2006/07	82	137	91	47 1	18 10	100 59	9 12	43										
Park Prewett Hospital	Basingstoke & Deane	1,250	Brownfield	1998/99	28	82	37 1	102 (	0	0 0	0	0	307	214	219	146	33	34	56	}		
Oxley Park (East & West)	Milton Keynes	1,300	Greenfield	2004/05	52	166	295	202 1.	115 9	91 75	5 163	~										
Love's Farm	Huntingdonshire	1,352	Greenfield	2007/08	34	186	336	302 2:	216 6	60 108	8 59											
Great Denham	Bedford	1,450	Greenfield	2003/04			116			92	2 150	138	3 71	122	146							
Jennet's Park	<b>Bracknell Forest</b>	1,500	Greenfield	2007/08	153	154	145	168 13	136 17	179 235	5 93											
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Centenary Quay	Southampton	1,620	Brownfield	2011/12	28	102	103	72														
Red Lodge	Forest Heath	1,667	Greenfield	2004/05	65	93		722			235	}	}	77								
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Havant and Winchester         3,000         Greenfield         2009/10         38         71         30         112         193         7         8         7         8         7         30         8         7         8         7         8         7         8         7         8         7         8         7         8         7         8         7         8         7         8         7         8         7         8         8         7         8         8         7         8         8         7         8         8         8         9         8         7         8         8         9         8         9	Cranbrook	East Devon	2,900	Greenfield	2012/13	187	419	356														
Cambridge and South South South South South South Align Keynes         3,600         Greenfield         N/A         154         359         371         114         473         138         ~         138         ~         154         154         359         371         114         473         138         ~         150	West of Waterloo	Havant and Winchester	3,000	Greenfield	2009/10	88	71	30	82		193											
Chelmsford         3,600         Greenfield         N/A         154         359         371         114         473         138         ~         9         9         154         359         371         114         473         138         ~         9         9         154         359         371         114         473         138         ~         9         9         154         359         154         371         154         377         267         159         150         159         150         158         371         150         151         377         267         159         150	North West Cambridge	Cambridge and South Cambridgeshire	3,000	Greenfield	A/N																	
South Cambridgeshire A,500 Greenfield Sou8/09 Greenfield Sou8/09 Greenfield Sou8/09 South Bedford A,500 Greenfield Sou8/09 S A A S A S A S A S A S A S A S A S A	Beaulieu Park	Chelmsford	3,600	Greenfield	N/A																	
South 4,343 Greenfield 1999/00 42 361 213 337 620 151 215 217 267 219 190 162 206 154 Swindon 4,500 Greenfield 2008/09 8 190 160 138 113 109 109 109 109 109 109 109 109 109 109	Eastern Expansion Area (Broughton Gate & Brooklands)	Milton Keynes	4,000	Greenfield	2008/09	154	320	371	114		138	}										
Swindon         4,500         Greenfield         2008/09         158         93         195         64         100         61         44         7	Cambourne	South Cambridgeshire	4,343	Greenfield	1999/00	42	361	213	337									51 129	240			
Bedford         4,500         Brownfield         2008/09         8         190         160         138         113         109	Wichelstowe	Swindon	4,500	Greenfield	2008/09	158	93	195	64	100		44										
Side Tauton Deane         4,500         Greenfield         2013/14         120         265         46         36         46         36         46         36         46         36         46         36         46         36         46         36         36         36         36         36         36         36         36         36         36         37         36         36         37         36         37         36         37         36         47         47         36         47	The Wixams	Bedford	4,500	Brownfield	2008/09	00	190	160	138			109										
Corby         5,200         Greenfield         2013/14         59         46         Action of a completed         Action of a	Monkton Heathfield	Tauton Deane	4,500	Greenfield	2013/14	120	265															
Kettering         5,500         Greenfield         N/A         1684         548         265         442           Peterborough         6,320         Brownfield         1997/98         157         79         55         50         87         87         87           Dartford         Dartford         15,000         Brownfield         2009/10         127         79         55         50         87         87         87	Priors Hall	Corby	5,200	Greenfield	2013/14	29	46															
Peterborough         6,320         Brownfield         1997/98         1684         265         442           Gravesham/         15,000         Brownfield         2009/10         127         79         55         50         87         87         842         442	East of Kettering	Kettering	2,500	Greenfield	N/A																	
Gravesham/ 15,000 Brownfield 2009/10 127 79 55 50 Dartford	The Hamptons	Peterborough	6,320	Brownfield	1997/98					1684				47			97			102	2	
	Ebbsfleet	Gravesham/ Dartford	15,000	Brownfield	2009/10	127	79	52	20	87												

# **Appendix 2: Small Sites Reviewed**

Site Name	Local Planning Authority	Site Size
Holme Farm, Carleton Road, Pontefract	Wakefield	50
Part Sr3 Site, Off Elizabeth Close, Scotter	West Lindsey	50
Former Downend Lower School, North View, Staple Hill	South Gloucestershire	52
Fenton Grange, Wooler	Northumberland	54
Land at the Beacon, Tilford Road, Hindhead	Waverley	59
Land To Rear Of 28 - 34 Bedale Road, Aiskew	Hambleton	59
Hanwell Fields Development, Banbury	Cherwell	59
and at Prudhoe Hospital, Prudhoe	Northumberland	60
Oxfordshire County Council Highways Depot	Cherwell	60
Clewborough House School, St Catherines Road	Cherwell	60
and south of Pinchington Lane	West Berkshire	64
and Off Cirencester Rd	Stroud	66
Springfield Road Caunt Road	South Kesteven	67
and off Crown Lane	Wychavon	68
Former Wensleydale School, Dent Street, Blyth	Northumberland	68
and at Lintham Drive, Kingswood	South Gloucestershire	68
Hawthorn Croft (Off Hawthorn Avenue Old Slaughterhouse Site), Gainsborough	West Lindsey	69
and to the North of Walk Mill Drive	Wychavon	71
Natermead, Land At Kennel Lane, Brockworth	Tewkesbury	72
North East Area Professional Centre, Furnace Drive, Furnace Green	Crawley	76
and at Willoughbys Bank, Clayport Bank, Alnwick	Northumberland	76
The Kylins, Loansdean, Morpeth	Northumberland	88
MR10 Site, Caistor Road, Market Rasen	West Lindsey	89
OS Field 9972 York Road Easingwold	Hambleton	93
and At Green Road - Reading College	Reading	93
North East Sandylands	South Lakeland	94
Auction Mart	South Lakeland	94
Parcel 4, Gloucester Business Park, Brockworth	Tewkesbury	94
Former York Trailers Yafforth Road Northallerton Scheme 1/2	Hambleton	96
Poppy Meadow	Stratford-on-Avon	106
Neeton Road/Fleetwood Road	Fylde	106
and South of Station Road	East Hertfordshire	111
Former Bewbush Leisure Centre Site, Breezehurst Drive, Bewbush	Crawley	112
and West Of Birchwood Road, Latimer Close	Bristol, City of	119
and Between Godsey Lane And Towngate East	South Kesteven	120
Bibby Scientific Ltd	Stafford	120
Kennet Island Phase 1B - E, F, O & Q, Manor Farm Road	Reading	125
Primrose Mill Site	Ribble Valley	126
and Rear Of Mount Pleasant	Cheshire West and Chester	127
and to the east of Efflinch Lane	East Staffordshire	130
North of Douglas Road, Kingswood	South Gloucestershire	131
and at Farnham Hospital, Hale Road, Farnham	Waverley	134
Bracken Park, Land At Corringham Road, Gainsborough	West Lindsey	141
Doxey Road	Stafford	145
Former York Trailers Yafforth Road Northallerton Scheme 2/2	Hambleton	145

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Site Name	Local Planning Authority	Site Siz
London Road/ Adj. St Francis Close	East Hertfordshire	149
MR4 Site, Land off Gallamore Lane, Market Rasen	West Lindsey	149
Queen Mary School	Fylde	169
Sellars Farm, Sellars Road	Stroud	176
Land South of Inervet Campus Off Brickhill Street, Walton	Milton Keynes	176
Notcutts Nursery, 150 - 152 London Road	Cherwell	182
Hoval Ltd North Gate	Newark and Sherwood	196
Hewlett Packard (Land Adjacent To Romney House), Romney Avenue	Bristol, City of	242
128-134 Bridge Road And Nos 1 - 4 Oldfield Road	Windsor and Maidenhead	242
GCHQ Oakley - Phase 1	Cheltenham	262
Land off Henthorn Road	Ribble Valley	270
Land Between A419 And A417, Kingshill North, Cirencester	Cotswold	270
Hortham Hospital, Hortham Lane, Almondsbury	South Gloucestershire	270
Land At Canons Marsh, Anchor Road	Bristol, City of	272
M & G Sports Ground, Golden Yolk and Middle Farm, Badgeworth	Tewkesbury	273
Long Marston Storage Depot Phase 1	Stratford-on-Avon	284
Land at Brookwood Farm, Bagshot Road	Woking	297
Land at, Badsey Road	Wychavon	298
Land At Fire Service College, London Road, Moreton in Marsh	Cotswold	299
Land At Dorian Road	Bristol, City of	300
Kennet Island Phase 1 - H, M, T, U1, U2 Manor Farm Road	Reading	303
Chatham Street Car Park Complex	Reading	307
Former NCB Workshops, Ellington Rd, Ashington (aka Portland Park)	Northumberland	357
Former Masons Cerement Works and Adjoining Ministry of Defence Land, Gipping Road, Great Blakenham	Mid Suffolk	365
Woolley Edge Park Site	Wakefield	375
Luneside West	Lancaster	403
Radyr Sidings	Cardiff	421
New World House, Thelwall Lane	Warrington	426
Land at former Battle Hospital, 344 Oxford Road	Reading Borough Council	434
New Central (Land at Guildford Road and Bradfield Close including Network House, Merrion House, Bradford House and Coronation House	Woking Borough Council	445
Kingsmead South	Milton Keynes Council	450
Bleach Green, Winlaton	Gateshead	456
Farington Park, East of Wheelton Lane	South Ribble	468
Bickershaw Colliery, Plank Lane, Leigh	Wigan	471
Farnborough Business Park	Rushmoor	476
Horfield Estate, Filton Avenue, Horfield	Bristol City Council	485
Stenson Fields	South Derbyshire	487
Cookridge Hospital	Leeds	495

#### **About NLP**

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