

Motivation for the project

Fine words about new homes, transport and lifestyles. <u>But what</u> <u>are we building in real life?</u>



Low carbon Active travel

Community
Connected
SUSTAINABLE

Accessible

Let's go and have a look.





- Does the place feel like a housing estate or a 'village community'?
- Is the place pleasant and vibrant? Are there amenities to walk to?
- Is the public realm pleasant and 'walkable'?
- Is it well connected to the existing urban area?
- How do people travel?
- What would it be like living here without use of a car?
- What is public transport like?

Where we visited:

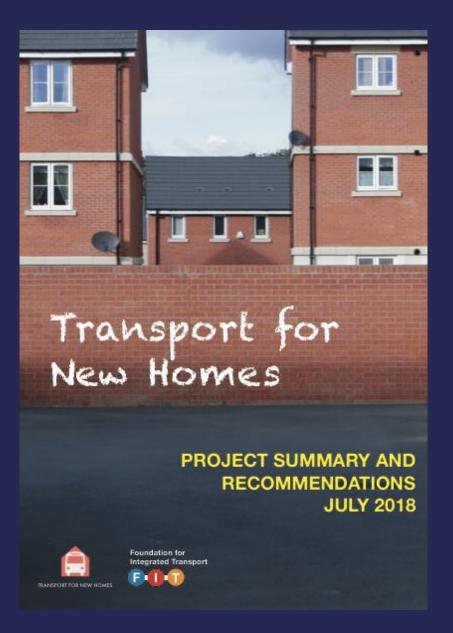
Newcastle Great Park Wynyard Park, Teeside **PAllerton Bywater, Leeds** Chapelford Urban Village, Warrington North Hykeham, Lincs Ashborne, Derbyshire Hampton, Peterborough **Priors Halls Park, Corby** Dickens Heath, Solihull Great Kneighton, Cambridgeshire **Northampton** Barton Park, Oxford Wichelstowe, Swindon Kidbrooke village, Greenwich Bath Riverside **Great Western Park, Didcot** Castle Mead, Trowbridge and Clackers Brook, Melksham Old Sarum, near Salisbury **Poundbury, Dorset** Cranbrook, Devon

Visits to the Netherlands

We visited Houten and urban extensions to Utrecht – Vleuten and Leidsche Rijn, as well as Almere and Eindhoven to see how the city was re-inventing itself around walking, cycling and public transport. A visit to Lund in Sweden showed yet another model of development.



What did we find?



Themes:

- Car-based living
- Homes not properly connected for pedestrians, cyclists or buses
- Public transport opportunities missed
- Importance of mixed land use
- Advantages of the new urban quarter
- Insights from the Netherlands

THEME ONE: CAR-BASED LIVING



- In most of the places we visited, people relied on their cars for the great majority of journeys.
- Parking and road access took up so much room it had a severe impact on the public realm
- Few urban trees and gardens little space left
- Developer contributions often channelled into road capacity
- Destinations were often car-based

loo: car park to car park

THEME TWO: HOMES NOT PROPERLY CONNECTED FOR PEDESTRIANS, CYCLISTS OR BUSES







- Often not linked by streets to the existing urban area.
- Access off distributor roads, link roads, roundabouts, dual carriageways.
- Pedestrian routes to town unsafe after dark.
- Buses serving neighbouring areas weren't able to reach the site.
- The 'red line of the development' often marked the end of good quality walking and cycling routes.
- This disconnectedness prevents community bonds from forming

THEME THREE: PUBLIC TRANSPORT OPPORTUNITIES MISSED

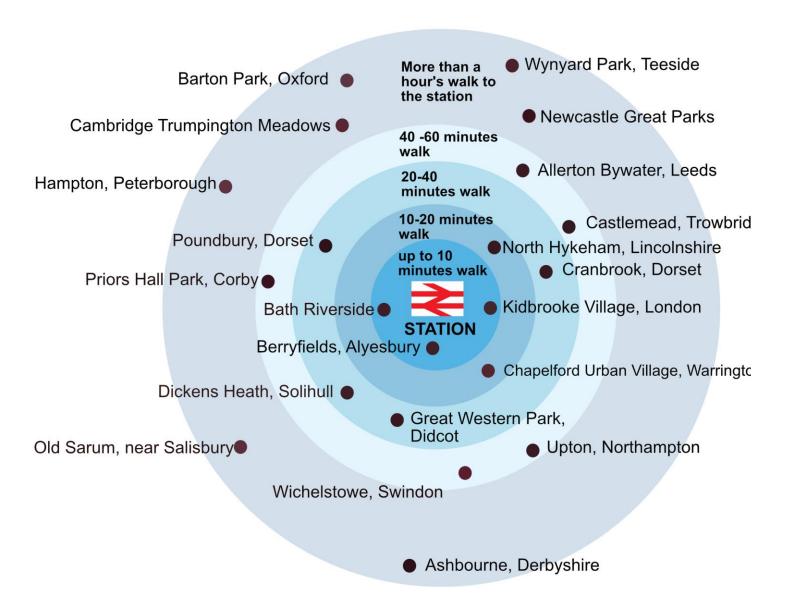




- Large developments on greenfield sites generally not served by modern integrated transport networks.
- Apart from in Cambridge, rapid transit not exploited.
- Proximity of new homes to a station was rare. Only two new stations Cranbrook and Warrington West
- Bus services suffered from car-based context of new homes.
- Road capacity was comparatively easy to deliver, but funding uncertainties made local rail and modern rapid transit extremely difficult to put in place.
- Large scale new housing in city areas have got the benefit of an existing public transport network close by.

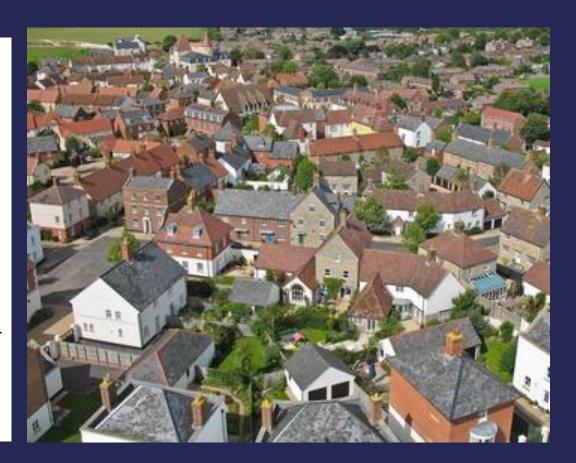
Distance of new homes from the station

Most developments were nowhere near a station.



THEME FOUR: THE ADVANTAGES OF MIXED LAND USE

- Mixed land-use key to achieving active life styles and viable public transport.
- People coming to work provide a market for local businesses
- Poundbury was unique in this respect, with services and businesses alongside homes as a genuinely walkable community.
- In other places, employment tended to be provided in employment areas segregated from the new homes
- Urban developments such as at Kidbrooke and Bath were better at providing mixed land-use



THEME FIVE: THE ADVANTAGES OF THE URBAN QUARTER



Having found that much new greenfield housing was car-based with little in the way of local facilities, we were encouraged to see that large scale new housing within urban areas was quite different.

- People could make use of public transport networks already in place.
 Better connected to existing neighbourhoods with services and employment easily accessible.
- Shops and other local businesses moved in to make use of a large new population living close by.
- Many residents saw parking as less important than public transport connections
- Less space occupied by parked cars meant more opportunities for public green space
- But the risk is that these homes are unaffordable to many

THEME SIX: LESSONS FROM THE NETHERLANDS

- New towns designed around excellent public transport – rapid transit systems; segregated bus lanes with bus priority at junctions; stations as integrated transport hubs.
- Walking and cycling were the easiest ways to get around town
- Thriving town centres with market squares, railway stations, shops, urban farms and virtually car-free
- Clear strategy to prioritise urban and wellconnected sites for development
- Multidisciplinary planning teams
- Zoning and spatial planning
- Uplift in land values used for social good

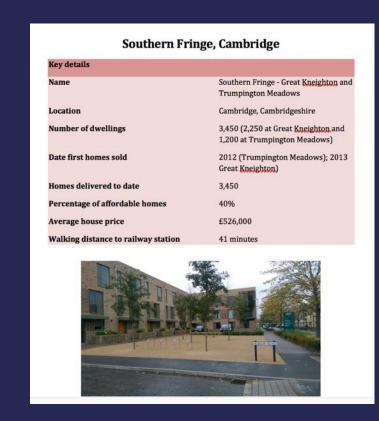


OUR VISITS WERE SUPPLEMENTED WITH DESK-TOP RESEARCH....



PROFILES WERE PRODUCED FOR EACH PLACE

- Location
- Form and context of development
- Planning history
- Eventual size
- Date first homes sold
- Homes delivered to date
- Percentage of affordable homes
- Average house price
- Quality of public realm: urban trees, grass verges, walking environment
- Where you can walk to
- Public transport provision, destinations and frequency
- Walking distance to railway station.
- Developer contributions to the community
- What is provided locally
- Whether a lack of local facilities is compensated for by frequent public transport



Type of facility	Plans and current state of progress within development	Built yet within site?	Closest example outside the development	Estimated time to reach nearest example outside development			
				Walking	Cycling	Driving	Public transpo
Convenience store	Waitrose, Addenbrooke's Convenience Store	Yes					
Café / restaurant	Clay Farm Centre	Yes					
Drinking establishment	No plans known	No	Several on Trumpington High Street	15 mins	5 mins	4 mins	18 mins
High street shops	No plans known	No	Trumpington High Street	15 mins	5 mins	4 mins	18 mins
Supermarket	Waitrose	Yes	92.0				
Nursery	Trumpington Meadows Primary School	Yes					
Primary school	Trumpington Meadows Primary School	Yes					
Secondary school	Trumpington Community College, newly opened	Yes					
Park	Trumpington Meadows nature reserve and country park	Yes					
Playground	Several	Yes					
Playing fields	No plans known	No	King George V Playing Fields	15 mins	4 mins	4mins	20 mins
Tennis courts	No plans known	No	King George V Playing Fields	15 mins	4 mins	4mins	20 mins
Leisure centre	Trumpington Sport (new)	Yes	200				
Swimming pool	No plans known	No	Leys Leisure Sports Complex	42 mins	12 mins	7 mins	27 mins
Wildlife area	Trumpington Meadows	Yes					
Community Centre	Clay Farm Centre	Yes					
Daytime /	Clay Farm Centre	Yes					

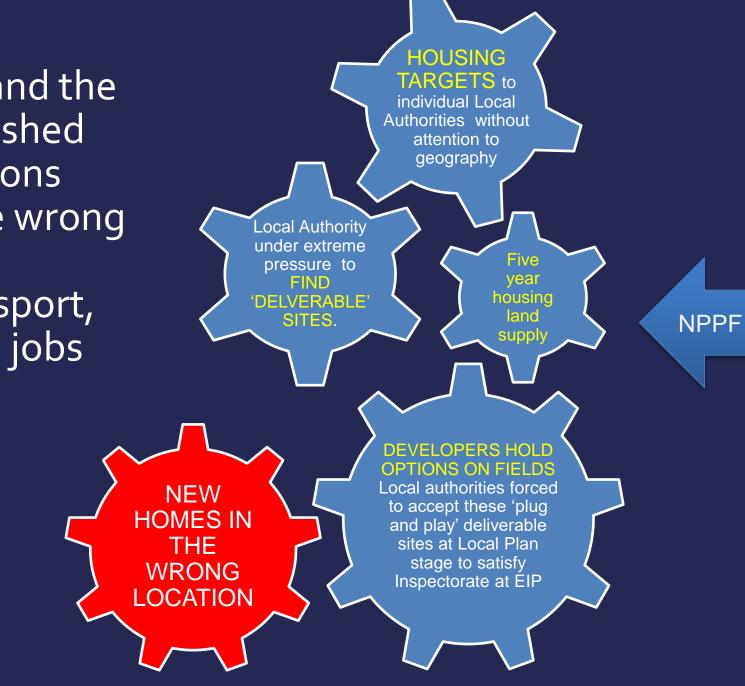
WE LOOKED AT THE PLANNING SYSTEM

- NPPF and Planning Practice Guidance
- Housing targets and their calculation
- Choice of sites in Local Plans where and why
- Analysis of traffic generation, congestion and commuting, CO2 emissions
- Overall size and housing density of urban extensions
- Coupling of new homes with new roads
- 'Plug and play 'developer master-planning

We tried to understand the mechanisms that pushed new homes to locations that were simply the wrong places to serve with frequent public transport, and a long way from jobs and services

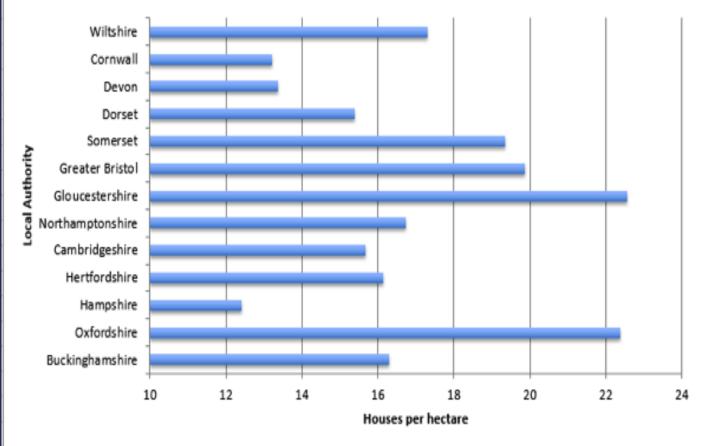
Sustainable

transport



We looked at the overall housing densities of over 100 urban extensions and large new greenfield estates and concluded that they were likely to be insufficiently dense to serve with a public transport network

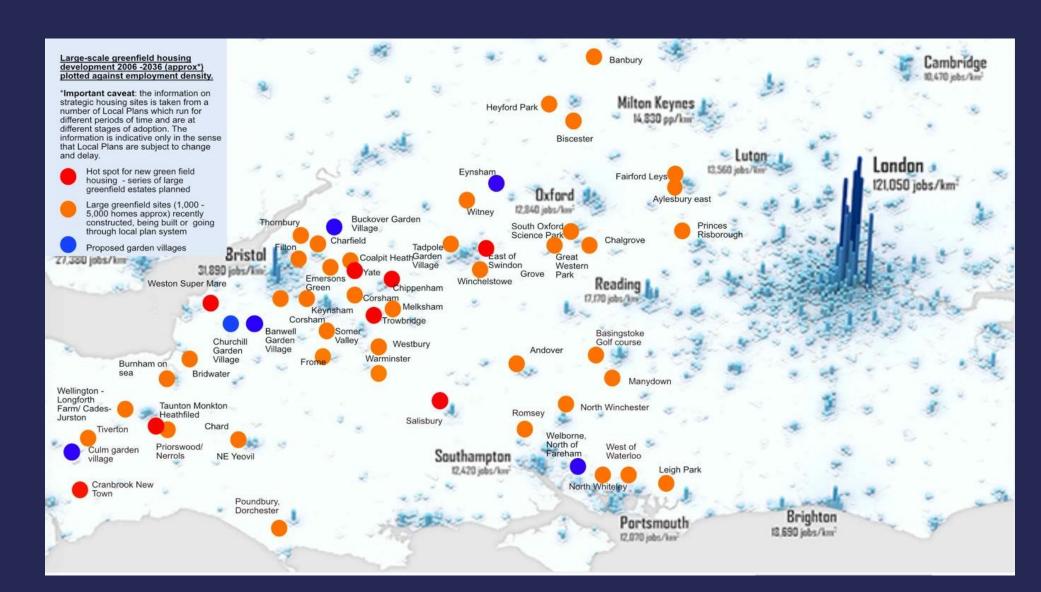
Housing density within urban extensions by local authority

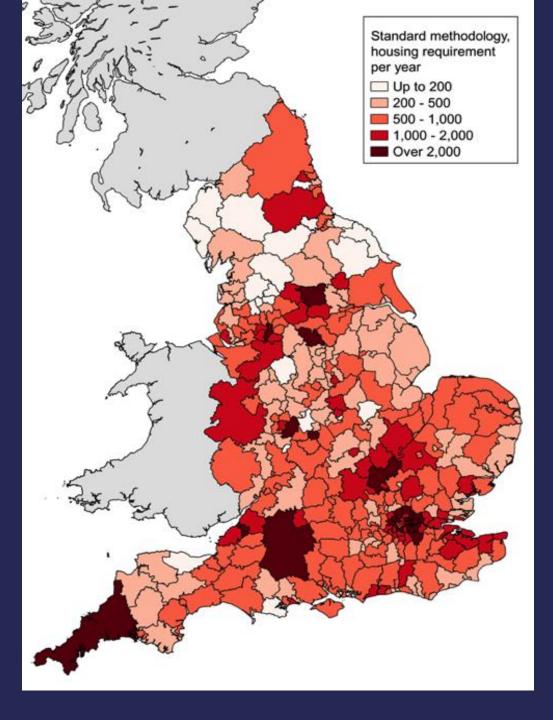


Results of TfNH analysis of gross density over 100 new greenfield estates/ urban extensions.

Using local plans to find strategic sites, we are attempting to map hot-spots for new homes with employment density.

The pattern of dispersed development begins to emerge. People and employment are separated and the pattern of development very dispersed.

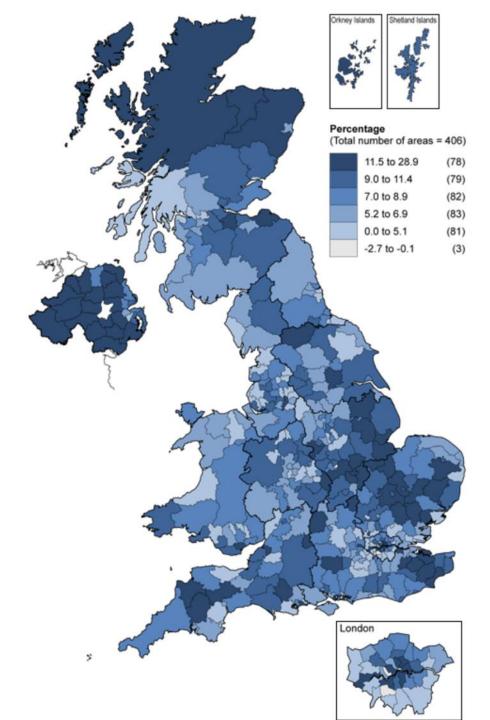




With help from Savills we managed to produce the first ever map of the government's current housing targets to get some kind of perspective on where we were building now and into the future. We asked whether public transport improvements anticipated these changes.

We found no evidence that they did.

Housing targets across
England using MHCLG
spreadsheet 2018 – mapped
by TfNH/Savills



We looked at the change in households across the country and asked whether local public transport improvements anticipated these changes.

Again it seemed they did not.

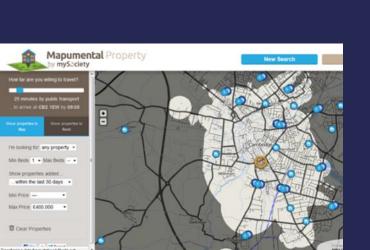
Geographical differences in growth of number of households from ONS 2011 Census We found that new road capacity received substantial developer contributions in nearly every greenfield development.

But congestion maps showed that how journeys just added to congested roads down the line – a network effect rather than a local problem.

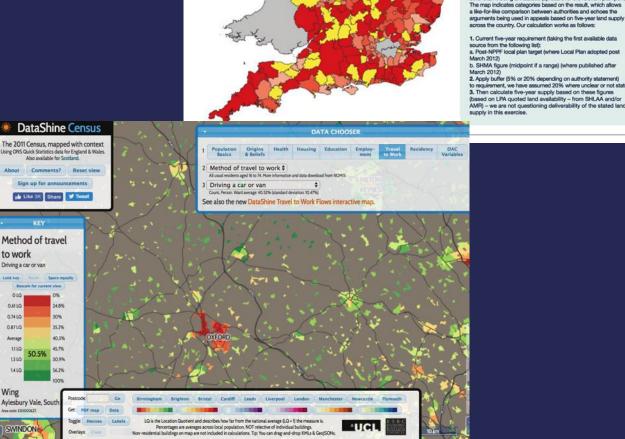
Local Authority	Nearest Town	Hectares	Affordable Housing	New Housing	Road Improvements
Wycombe	Princes Risborough	25	1,040	2,600	Through-development, bypass, and intermediate routes under consideration
Aylesbury Vale	Milton Keynes	107	651	2,170	Extension of grid road network
Aylesbury Vale	Milton Keynes	20	99	330	Extension of grid road network
Aylesbury Vale	Aylesbury	117	980	2,450	Eastern link road and Stocklake link road
Aylesbury Vale	Aylesbury	200	720	1,800	-
South Bucks	Beaconsfield	38	120	300	A355 relief road to its north
South Oxfordshire	Didcot	180	990	3,300	Increase capacity of A34, works at Milton Park interchange
South Oxfordshire	Oxford	100	900	3,000	Access route to central Oxford
South Oxfordshire	Benson	144	1,050	3,500	Improve crossing, junction, slip roads on M40
Vale of White Horse	Abingdon	54	244	610	Improvements to A4183
Vale of White Horse	Grove	45	750	2,500	Eastern and northern relief roads
					Junction and slip road on A40, west end
West Oxfordshire	Witney	130	1,065	3,550	link and northern distributor between A4095 and B4022
West Oxfordshire	Eynsham	228	660	2,200	New road linking A40 to A44 and improvements to A40
West Oxfordshire	Chipping Norton	166	420	1,400	Eastern link road
West Oxfordshire	Carterton	90	300	1,000	Improvements to B4477 and western slip roads on A40

OTHER DATA

- Datashine (online from UCL) enables you to look at commuter patterns by mode and gives an insight into destinations
- Google provides useful information on congestion
- Mapumental enables you to see what places you can get to from a given point using public transport
- City Scape







Five-year land supply

Failed at appeal in the year to April 201

local authorities in England using the LPA published supply figures.

No adjustment has been made to the supply, and the methodolog does not impose any different treatment of the basic requirement

Published >5 years, standard calculation 4.5-5.5 years

Finally... some RECOMMENDATIONS



As a result of our work we have produced a number of recommendations for better combining sustainable transport with the delivery of new homes.

Fundamental changes are needed to deliver new homes and sustainable transport in combination. But how can we initiate something better? That is the question.

