

designing for wellbeing in environments for later life

How can the design of housing & neighbourhoods improve older people's wellbeing?

A participatory approach to research & design

A presentation by Sarah Wigglesworth Professor of Architecture, University of Sheffield Director, Sarah Wigglesworth Architects 18.ix.2014



How can the design of housing & neighbourhoods improve the wellbeing of older people?

A participatory approach to research & design

- Funded by UK Research Councils (EPSRC, ESRC, AHRC)
- 3 year project running from 2014 2017
- An innovative partnership between University of Sheffield researchers, Sheffield City Council, and other local & national participants: housing associations, private developers, and local residents
- The project aims to produce developed and *tested* prototype designs, codes, and service specifications



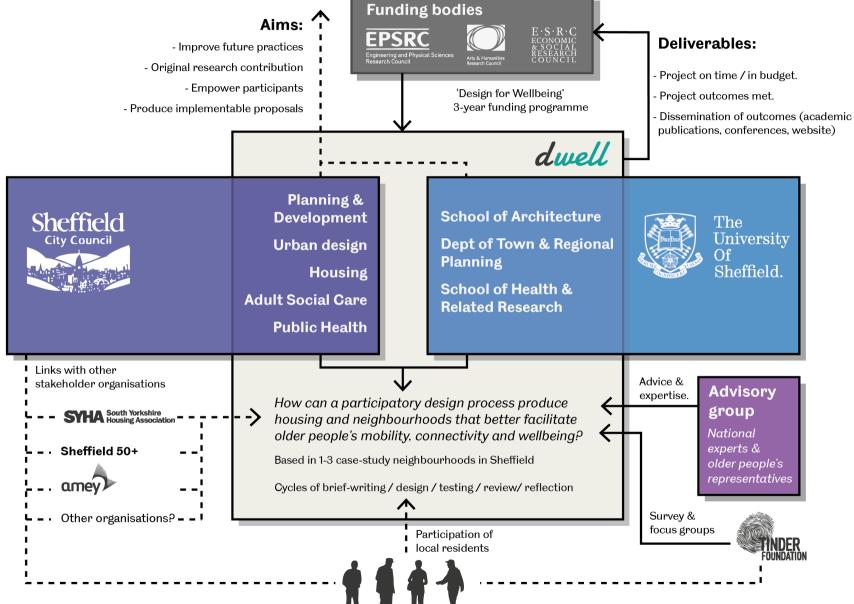






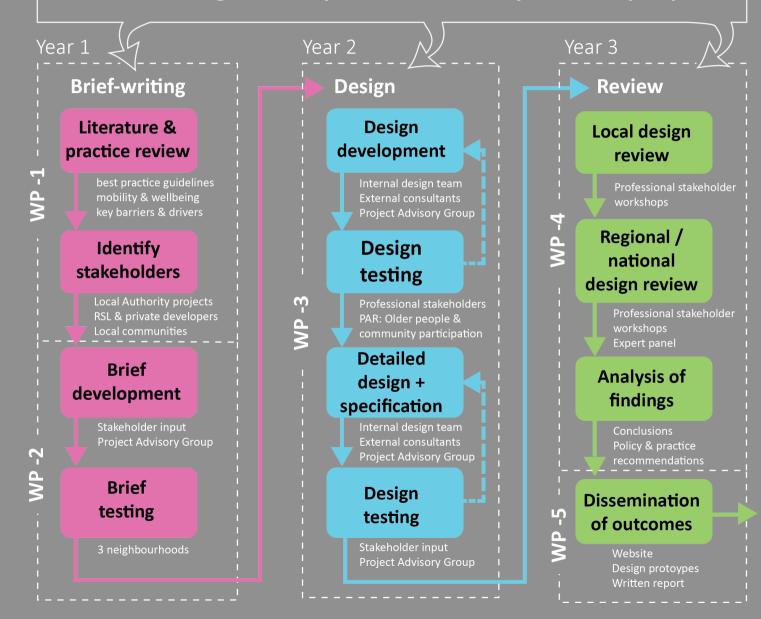




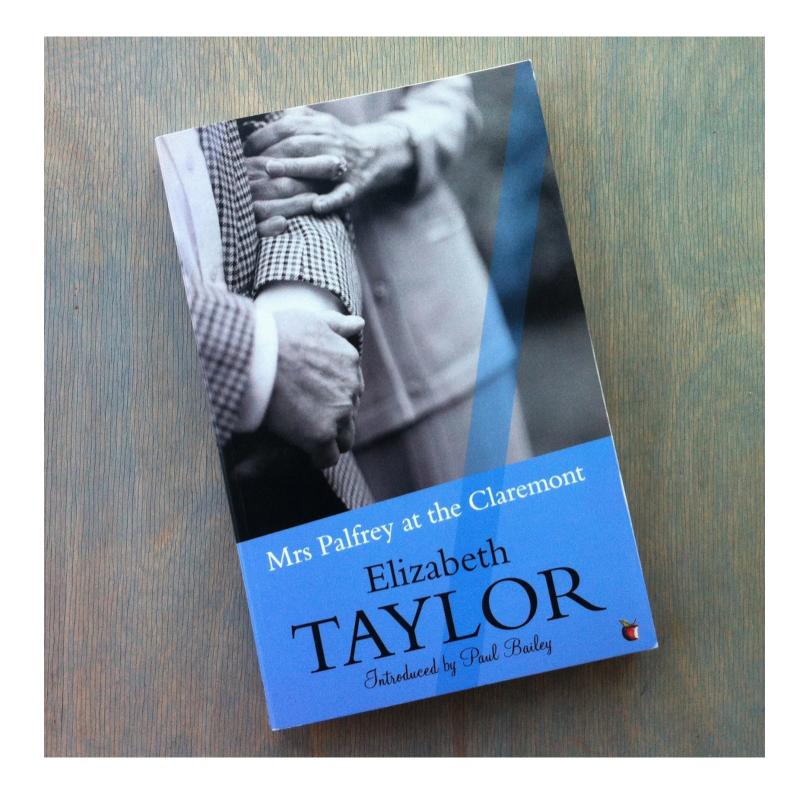




How can the design of housing & neighbourhoods improve the wellbeing, mobility and connectivity of older people?



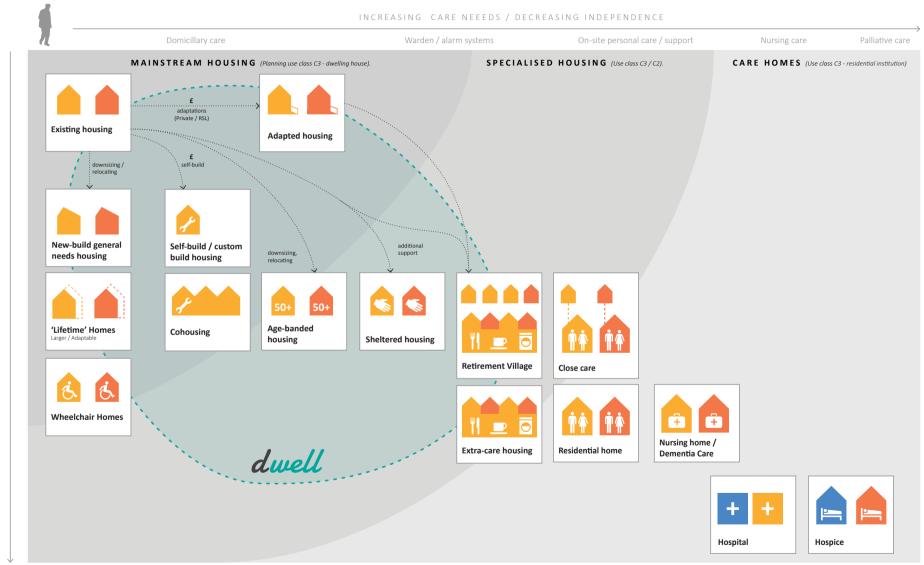






Housing Pathways for Older People

Typical housing trajectory and choice for older people











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Loneliness twice as unhealthy as obesity for older people, study finds

Scientists found that the loneliest were nearly twice as likely to die during their six-year study than the least lonely

lan Sample in Chicago The Guardian, Sunday 16 February 2014 15.32 GMT

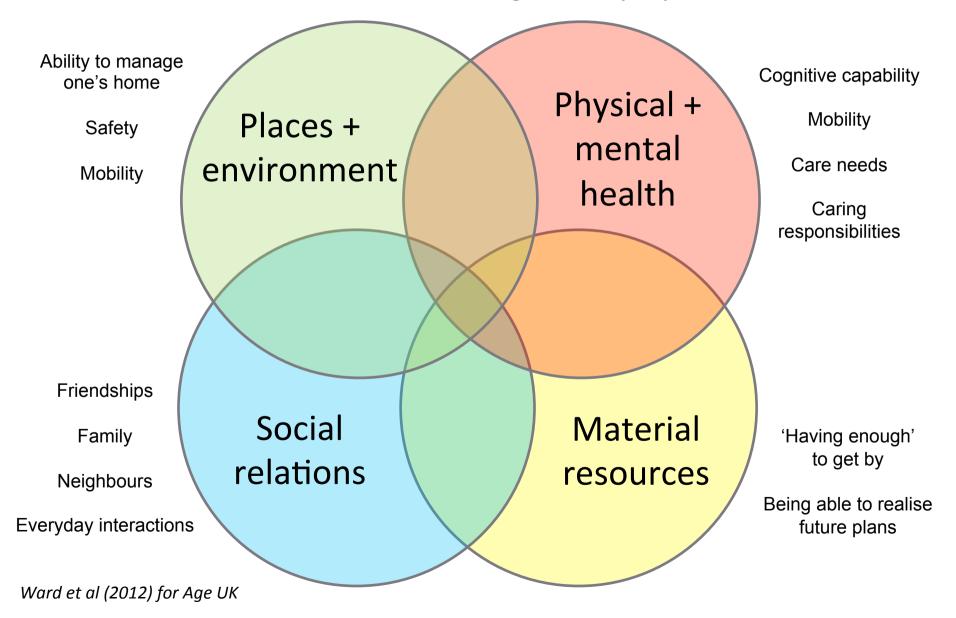
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The findings point to a pending crisis in the UK as the population ages and people increasingly live alone or far from their families. Photograph: Paul Doyle/Alamy



Dimensions of well-being in older people





What do we mean by wellbeing in the context of older people's needs?

From Nordbakke & Schwanen 2014

Well-being is contextual and is a social process. Its definition changes and is redefined continuously through social interactions.

It relates to people's past experiences and aspirations for the future, as well as comparisons with others or a certain reference group in society (Bowling 1995a). New approaches focus on the aspects contributing to people's flourishing, such as 'meaning', 'purpose' and activity.

Strands

- balance between an ageing person's changing competencies and the environment in which s/he lives her/his everyday life (Lawton and Nahemow 1973; Peace, Holland, and Kellaher 2011)
- 'individually judged, yet socially experienced, state of happiness, freedom, safety and capability, shaped by interrelations with social, cultural (and natural) environments' (Hall 2010, 277)

In summary, interconnections and reciprocity between selves and wider social, cultural, biophysical and spiritual elements. 'Spaces of well-being' emerge out of the interactions between individuals with material and immaterial elements.



Issues at the heart of the project

The significance of relationship between the home, one's immediate neighbours, the street, the wider neighbourhood, and the city and (in future) IT networks

The interdependence of different forms of housing and and tenure (adaptable housing, sheltered housing, accessible housing and Lifetime Homes, extra-care housing, co-housing)

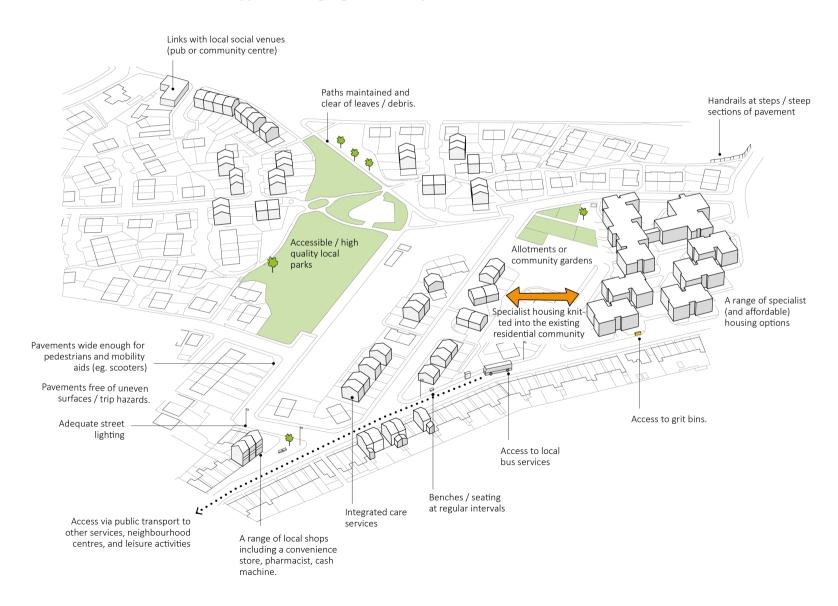
An expanded conception of wellbeing and mobility (beyond physical needs / barriers)

Understanding the significance of individual choice and control (agency) in decision-making around housing needs, as well as understanding the choice and control of relatives or carers.



Neighbourhoods for Older People

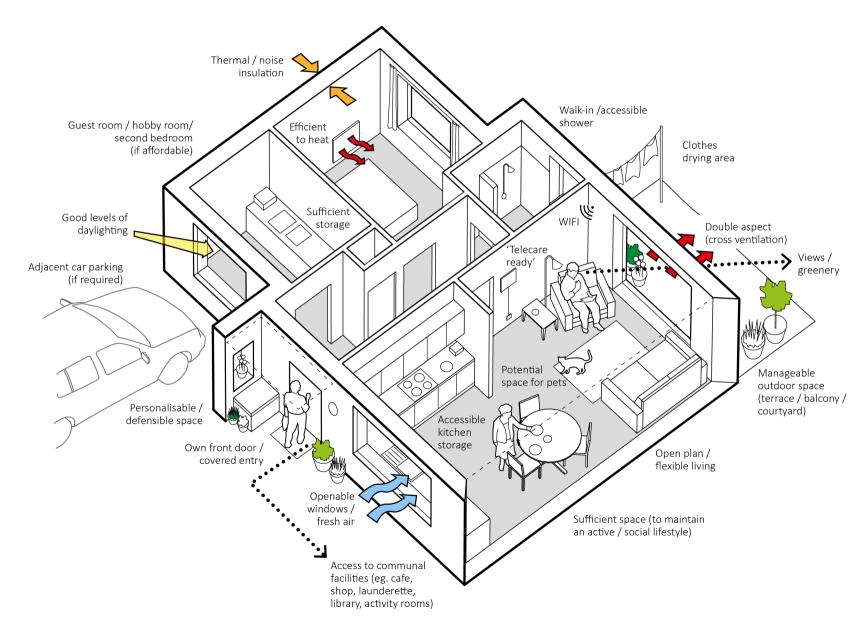
Typical design guidance synthesised from recent research





Specialist Housing for Older People

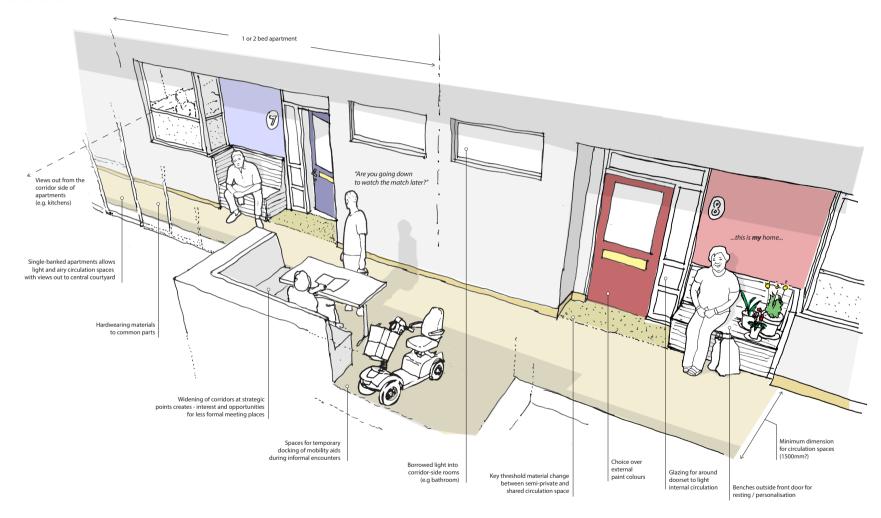
Typical design guidance synthesised from recent research





Thresholds: private and communal spaces

Typical design guidance synthesised from recent research



01



The contribution made by a quality built environment to improved wellbeing for older people

Greater housing and neighbourhood choice for older people

Greater independence and agency for older people

Better connectivity to the outside world – family, friends, culture, services, current affairs, nature, outdoor environment

Sanctuary: safety and security at home and in the public realm

Integrated, well-designed services within reach via reliable transport infrastructure

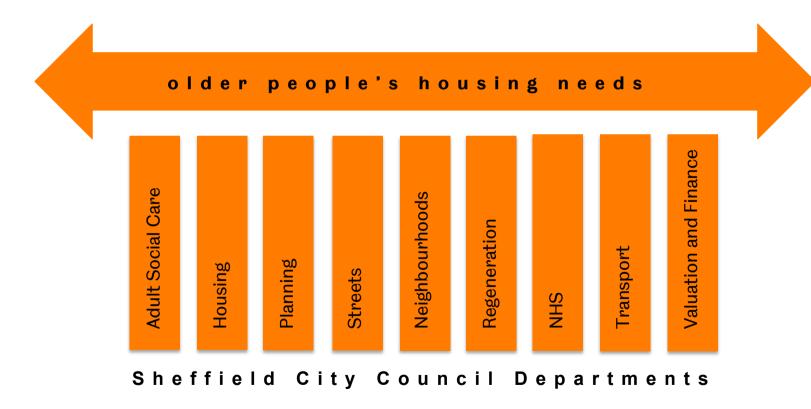
Provision of resting places & wcs on routes to shops and services; negotiable streets, good lighting

Keeping communities stable and coherent

Integration of older people in multi-generational neighbourhoods, avoiding older people's ghettos



Housing for older people: cutting across all services delivered by Sheffield City Council





A key component of our research: Participant Engagement



City-wide (Reference) group

20-30 older people from across Sheffield have been recruited to form a standing 'reference group '. This group can be consulted on any Sheffield-wide initiative, or early stage proposals which have no defined site / locality.

Local groups

Groups have been recruited in Dore, Sharrow and Foxhill (Parson Cross) to engage with in the proposed design interventions. The groups are initially the basis for focus group work and will remain involved throughout the design process and evaluation (should they wish to do so).

Individuals

In order to collect more in-depth data on older people's mobility we may interview and/or observe individual older people (around 10 per locality/ project). This may be linked to particular housing types or whole localities, depending on the scale for potential change.



Sheffield: a City for All Ages



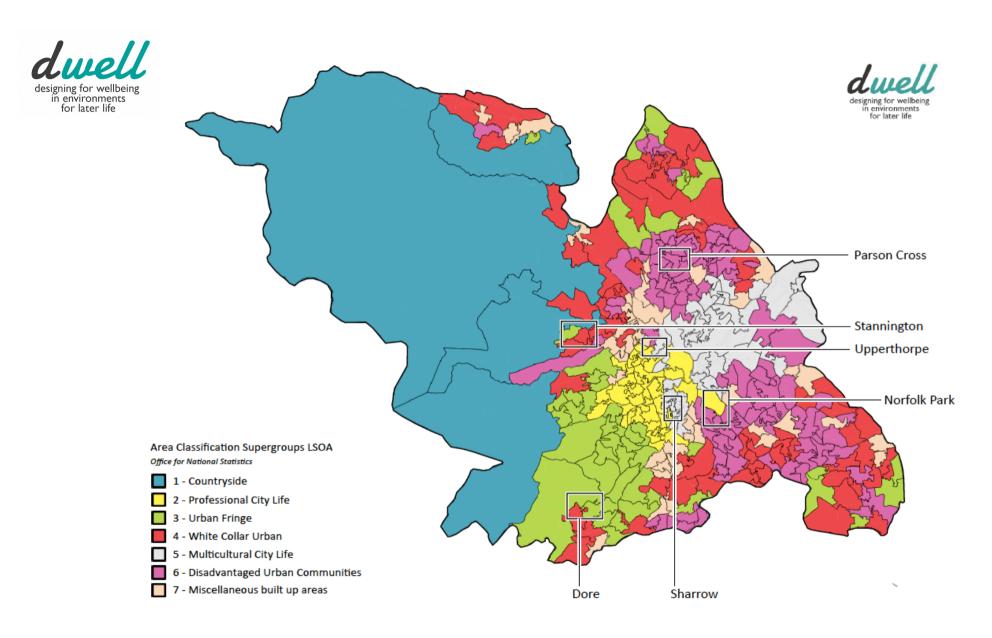
2013 Framework sets out the aspiration to make Sheffield be the most age-friendly city in the country.

- how we experience old age is determined largely by factors that occur at earlier stages of life such as employment, living standards, housing, health and environment
- people, organisations and the city can all play their parts to maximise the chances of active and healthy ageing
- emphasises the key role of prevention in the creation of active ageing





Sheffield



Sheffield

neighbourhoods under scrutiny in the Dwell project



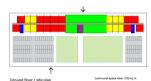
Typologies of ExtraCare



ASSUMPTIONS
- Insputs based on a 00 dwelling development
- 3-shorey development height (except tower)
- a mix of 1 bed and 2 bed accommodation
- a minimum of 3000 sq m. of communal space / plant
- all dwellings to be ground floor or lift accessed
- parking ratio of approx. I space per dwelling

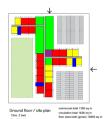
LINEAR





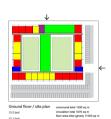
BRANCH



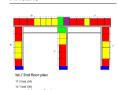


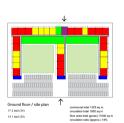
COURTYARD





FINGERS





VILLAGE





HUB + SPOKE



TOWER



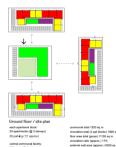
KEY: 2 bed flat (72 sq m. approx. GIFA)

Service core (lifts + stairs)

Communal facilities / plant

→ Street frontage / access -> Secondary / vehicular access







Ground floor / site plan communal total 1030 sq m chroulation total 1800 sq m floor area total (gross) \$576 ag m chrodiston ratio (approx.) 19%

building footpates 3500 ag n site 11300 sq m

LINEAR

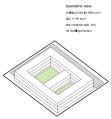
- lone corridors with limited natural light / poor wayfinding single aspect apartments provide poor daylighting difficult to break up long 'monolithic' block

building footprint 3700 sq m 82 dwellingshectore

BRANCH

+ flexible form can be adapted for different shaped sites

Disadvantages
- 'institutional' / private in nature - may feel closed off to external user issues of differentiating 'front' and 'back' in relation to street access - form may cause difficulties with levels on sloping sites
 - long corridors with limited returnal light
 - single aspect spar-traints provide poor daylighting
 - building form limits opportunities for semi-private encour-gurdens + parking separated from building (boundary tree

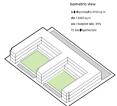


COURTYARD

positivation or cash aspect apartments with outure cayingto
+ views/ wayfinding / daylighting within corridors
 circulation spaces can estend into semi-private commun
 private coortysed gurdens integrated into building form
 floor area efficiency comparative with single aspect optio

users
- more circulation space
- form may cause difficulties with levels on sloping sites

courtyard gardens may lack surlight?
 difficult to break up large 'monolithic' block
 parking separated from building (boundary treatment required)



FINGERS

+ potential for dual aspect apartments with better daylighting + potential for most apartments to share favourable aspect (south) beisen/ vogifinding/ daylighting within corridors
 televal vogifinding/ daylighting within corridors
 televalue form can be adapted / crunked for different shaped sites
 circulation spaces can extend into serri-private communal areas.

- fewer dwellings / hectare than other options (linear / branch / courtward)

Isometric view building footprint 5000 sq m

VILLAGE

+ mix of units provides choice for different individuals * max or aims provises croces are crimerent individuals

+ provision of popular bungilous hypology

+ could include other houselypus « apartment blocks

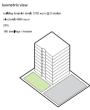
+ semi-private glandens + parking courts integrated into alte layou

+ dispersed layout may be suitable to address levels on sloping sit + dispersed layout breaks up massing + institutional feel + village layout potentially easier to integrate with surrounding

courtyard)
- less suitable for denser urban sites longer walking distances from bungalows to communal spaces

building footprint (lotal) 4200 sq m also (total) 8450 sq m site / footprint ratio 49%

building feelprint (total) 1230 aq m (§ 9 stories also (total) 4892 aq m



* most flexible option (suitable for expansion)

HUB + SPOKE

Isometric view

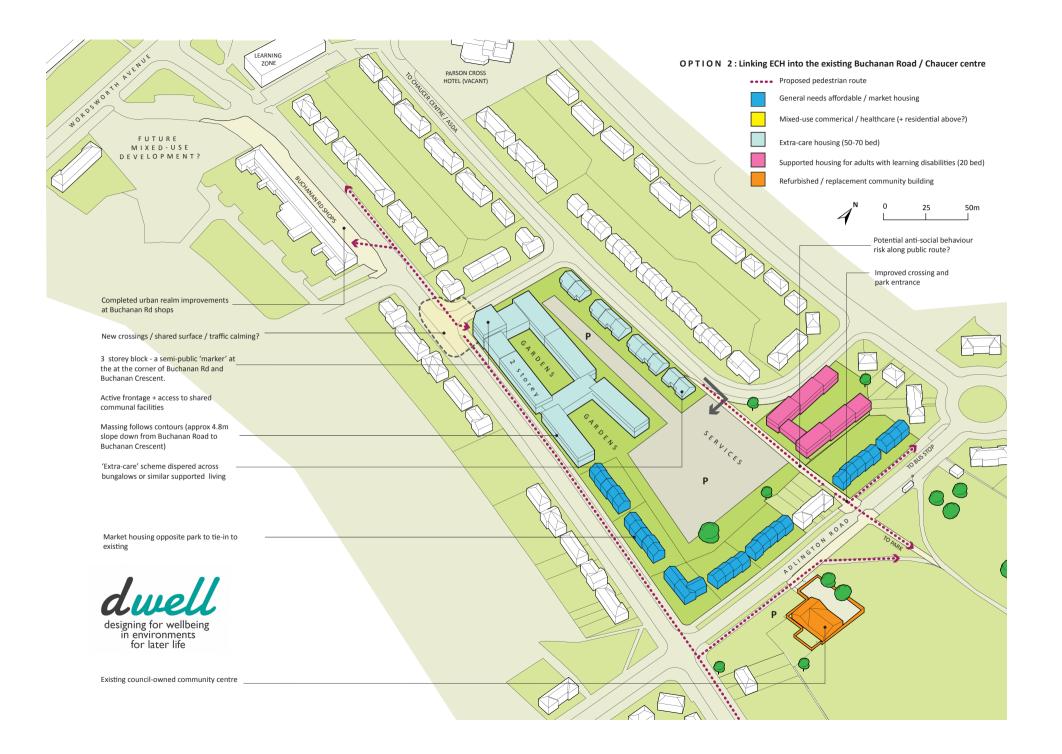
- limited private outdoor space - residents may not feel ownership over remote communal facilities - careful planning of management strategy (and calculation of service

TOWER

+ potential conversion of former seneral-needs high-rise housing

residents may not feel ownership over ground floor facilities







Identification of projects going forward

Parson Cross

partnering Sheffield City Council in developing an ExtraCare facility

Brief assembly, feasibility options, clarifying aspirations, spatial explorations, sectional explorations, testing add-ons

Sharrow Vale

co-design with community of benches located in public realm

Using a small item of street furniture to raise design and neighbourhood issues though sustained engagement with the community

Dore

collaborating with local community on design of public open space

Improvements directed at older people in a well-to-do neighbourhood that is developing its Neighbourhood Plan

City Centre

opportunities for an innovative design project for city centre living

Revitalising the city centre, reuse of existing properties (commerical),





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