



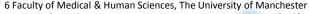


Headlines from the GHIA project – What's the story?

Sarah Lindley University of Manchester

Lindley, S¹, Ashton, J², Barker, A³, Benton, J⁶, Cavan, G⁴, Christian, R⁸, Colton, R⁹, Cook, PA⁵, Dennis, M¹, French, D⁶, Gilchrist, A³, James, P⁷, Macintyre, V⁶, O'Neill. J⁸, Phillipson, C⁹, Taylor, R², Tzoulas, K⁴ and Wossink, A¹⁰

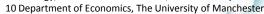
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Current

- 18% UK >65
- 83% UK urban
- 907,000 GM > 50

Future

- 25% UK > 65*
- 90% UK urban**
- 625,000 GM > 65***

We are an ageing and increasingly urban society.

Biodiversity losses
Development pressure
Climate change



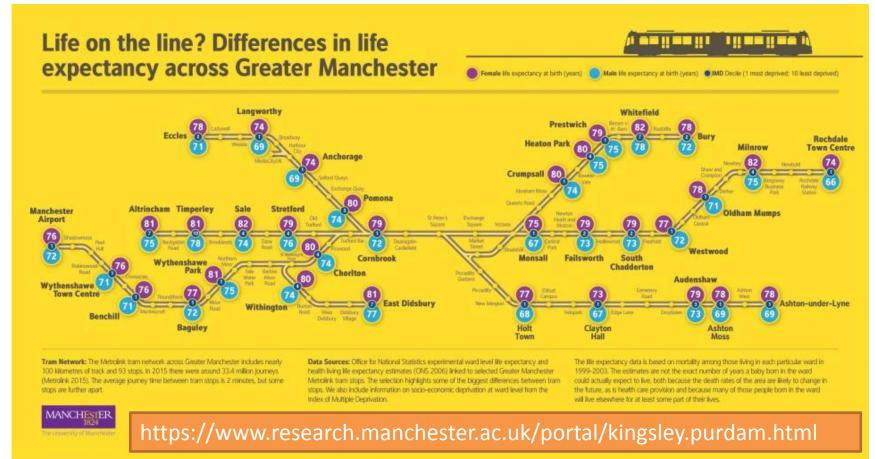








Ageing, health and the city













Green infrastructure comes in many different forms, but all have a role to play in determining human health & well-being



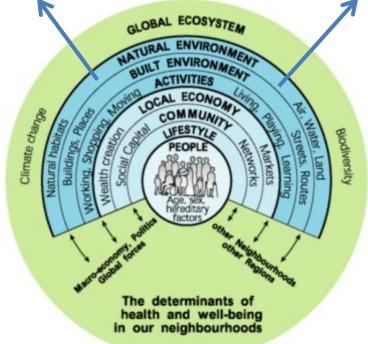














Barton, H. and Grant, M. (2006) A health map for the local human habitat. *The Journal for the Royal Society for the Promotion of Health*, 126 (6).



Based on Dahlgren and Whitehead's (1991) well known rainbow model https://core.ac.uk/download/pdf/6472456.pdf









October, 2016

POSTNOTE

Creating Age Friendly Cities



Overview

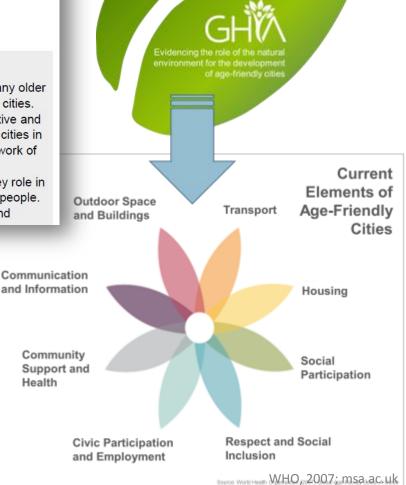
- The UK population is ageing and many older people are living in major towns and cities.
- Age-friendly cities aim to support active and healthy living into older age. Twelve cities in the UK are members of a global network of age-friendly cities.
- The physical environment plays a key role in making cities better places for older people.

 Research shows that accessibility and

Importance of outdoor space recognised due to widely recognised health & wellbeing benefits, including for older people

- Physical activity
- Life satisfaction
- Role in tacking loneliness & social isolation

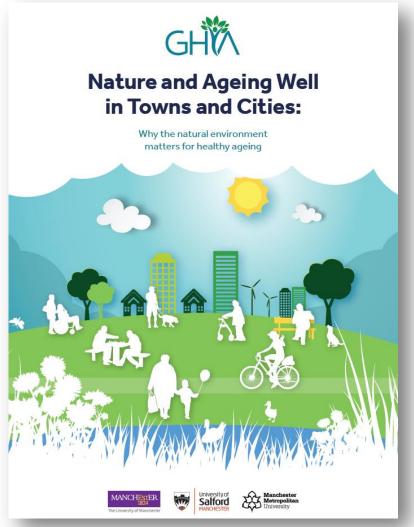
Access to green space is a Sustainable Development Goal











- How and why the natural environment matters for healthy ageing in urban areas
- Why urban nature and natural green and blue spaces are integral to what makes an urban area 'age-friendly'
- Why multiple perspectives are needed to understand what actions are required in a range of sectors of policy and practice.























- Principle 1: Involve older people & other beneficiaries
- Principle 2: Consider life transitions
- Principle 3: Broaden participation
- Principle 4: Emphasise the ways people relate to/are motivated to engage with the natural environment

- Principle 5: Be flexible and childrent perspectives and views.
- Principle 6: Consider spatial and temporal scales
- Principle 7: Work in a range of locations in Greater Manchester and variety of social and environmental contexts.
- Principle 8: Emphasise pathways through which health and wellbeing is influenced by urban green infrastructure.
- Principle 9: Acknowledge that green infrastructure is a system involving both people and the natural environment.







Who has the most urban green and blue space?

		Least Affluent ◆		Most Affluent	
		Top third for income deprivation	Middle third for income deprivation	Bottom third for income deprivation	
Youngest V	Mean of 12.6% of residents aged ≥ 60 (youngest third)	Younger residents on lower incomes	Younger residents on middle incomes	Younger residents on higher incomes	
	Mean of 20.4% of residents aged ≥ 60 (middle third)	Mid-age residents on lower incomes	Mid-age residents on middle incomes	Mid-age residents on higher incomes	
	Mean of 28.9% of residents aged ≥ 60 (oldest third)	Older residents on lower incomes	Older residents on middle incomes	Older residents on higher incomes	



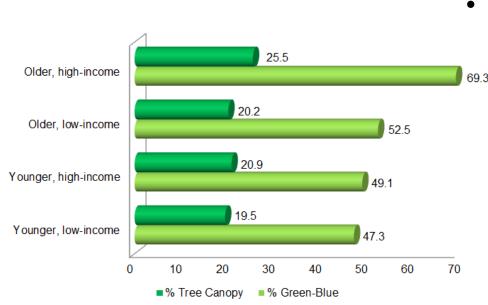








Who has the most urban green & blue space?



- Neighbourhoods with the *least* compared to *most* affluent older residents have
 - Lower proportions of green & blue cover
 - Less tree canopy cover
 - Smaller gardens
 - Markedly less public incidental institutional /amenity space
 - Only slightly smaller parks and public recreation areas, but with lower green/blue cover





MANCHESTER 1824

The University of Manchester

Mean Social Deprivation (IMD, 2015)

40

35

30

25

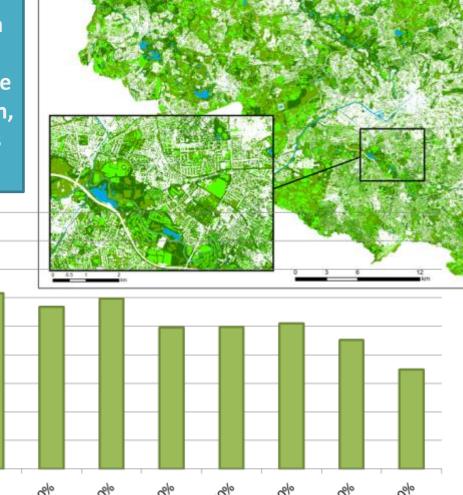
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15

10

IMD 2015

Social inequality - The
Greater Manchester
neighbourhoods with a
lower abundance of
green cover tend to have
higher social deprivation,
agreeing with previous
studies for England



Percentile Group % Green & Blue Cover

Source: GHIA Project (2018) derived from Sentinel 2A, City of Trees canopy & OS VectorMap Local data.

Land cover 2017

Source: Dennis, M., Barlow, D., Cavan, G., Cook, P.A., Gilchrist, A., Handley, J., James, P., Thompson, J., Tzoulas, K., Wheater, C.P. and Lindley, S., 2018. Mapping urban green infrastructure: A novel landscapebased approach to incorporating land use and land cover in the mapping of human-dominated systems. Land, 7(1), p.17.







What are the links between health and green infrastructure for older people?

- Better health in neighbourhoods with more, better quality and closer green and blue spaces.
- Older, high income neighbourhoods
 - Positive associations with many different elements of green infrastructure.
- Older low income neighbourhoods
 - Proximity to local green and blue spaces (within 100m) is the only statistically significant association.
 - Improving the quality of public parks & recreation areas could bring further benefits.











Recommendation 1.

Improving the environmental quality of local public parks and recreation areas could bring further health benefits to older, low income residents.

Consider measures like more diversity of land covers and vegetation types.

There is a particular health and wellbeing imperative to protect and enhance public parks and recreation areas in low income and deprived neighbourhoods because of the benefits that they bring.











How do older people value green space for their health and wellbeing?

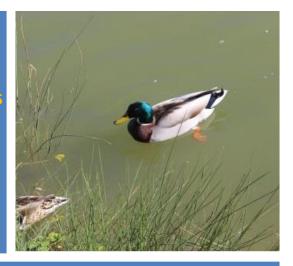
- Everyone of us has different needs, histories and interests underpinning what gives us a good life
- Wellbeing what people can be and do with their lives.
- Green and blue spaces are valued as places that:
 - Embody personal and social memories.
 - Present opportunities to connect with nature and volunteer with others.
 - Present opportunities for active outdoor activity and adventure.
 - Present opportunities for social relationships, independence and personal growth.







Recommendation 2. When developing interventions, consider the range of wellbeing values that green and blue spaces can provide for different groups of older people, from protecting spaces with personal and social histories through to providing varied spaces with opportunities for a wide range of activities and experiences.





Recommendation 3. Try to use a range of methods - both quantitative and qualitative - to help to understand values, and to develop and assess interventions. Local contexts are always important and can help to explain local variations and differences in outcomes.











What can we learn from assessing interventions?

- Even small scale interventions can have an impact for some elements of wellbeing.
- A small scale intervention within an area of existing green space showed no statistically significant change in older adults' physical activity, or any observable indicators of wellbeing
 - Smaller urban green spaces were perceived differently to large green spaces.
 - "This is their little island, isn't it?"
 - "There's not much they can do with it, only make it pleasant and tidy"
- Despite physical activity being valued as a benefit of green and blue spaces, it is not universally relevant.











What can we learn from assessing interventions?

- More can be made of interventions like dementia walks
 - more social and physical activity wellbeing outcomes than to contact with nature.
 - medium levels of sensory stimulation
 - Carers might support more noticing and contact with nature
- GI interventions can also help to reduce outdoor exposures to ultra-fine particles
 - Summer concentrations lower than winter
 - Summer-time concentrations generally lower near areas of low-level vegetation, especially shrub-level vegetation.













Recommendation 4. Consider how social prescribing and activities like dementia walks could be designed and delivered in bespoke ways that interweave the needs of walk participants with opportunities to have more and specific contact with nature in local parks, or other areas of green and blue space.





Recommendation 5. Consider establishing vegetation barriers. They can be used to reduce concentration levels of some of the very smallest air pollution particles which are known to be harmful for health but for which health-related air quality standards are not yet available. Such barriers are also known to have wider benefits, such as to reduce noise and provide more diverse habitats.











Why do we need participatory creative practice?

- Creative practice is a vital companion to other research methods
 - Loneliness and social isolation are challenging topic to be addressed directly
 - Visual expression is especially important for people who speak English as a second language, and with experiences of trauma and exclusion.
 - Deeper understanding of barriers to and opportunities for engagement.











What motivates people to engage more with urban GI in later life?

- We can't assume that health and wellbeing benefits are the primary motivator, so what does attract older people?
 - Individual factors
 - Emotional & personal connections to particular places.
 - Opportunity for personal achievement
 - Opportunity for variety and change
 - Having time
 - Social factors
 - Opportunity to meet new people
 - Opportunity to share knowledge and skills
 - Availability of a older place-makers and organisations to which different individuals can relate
 - Environmental factors
 - Quality Character of particular places interesting plants or wildlife and particular colours, shapes, scent & movement.
 Accessibility and facilities















Recommendation 6. Encourage more engagement with urban nature through taking account of the factors which tend to motivate and demotivate older adults to participate.





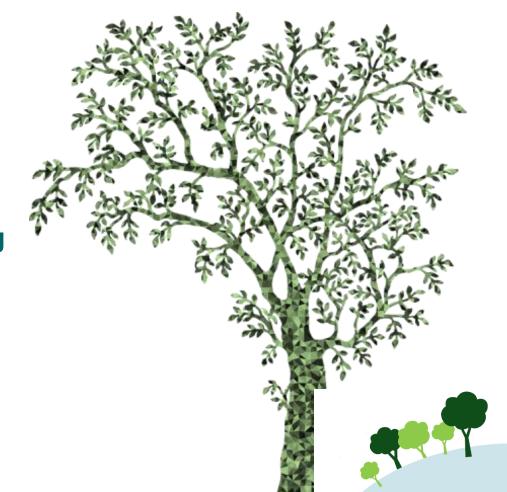






"You just don't realise how important it is until it's taken away"

- Many positive interventions and bold visions for increasing and enhancing urban green infrastructure in the future.
- We must also consider the negative health and wellbeing impact of losing spaces and 'wild places' valued by and cared for by communities.





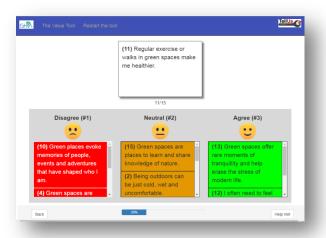






What to do if you

- Are a resident
- Work in GI professions
- Work in Arts, Heritage or Creative Practice professions
- Work in Health, Wellbeing or Social Care professions
- Work on Ageing agendas



More information

- Specific recommendations
- Further information section on tools and methods
- Deep dive talks
- Interactive sessions
- Any initial questions?



