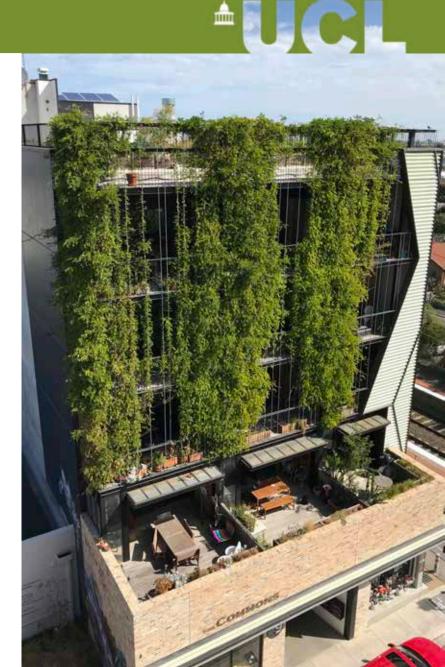
A new approach to healthy urban design & planning

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UCL Institute for Environmental Design and Engineering

What does a healthy building or neighbourhood look like in 2019?

Summannumum

UCL Institute for Environmental Design and Engineering

Seed Path NW

UCL

As a designer, planner, engineer... how do I know if my project will promote health?



There are many existing standards and guidance documents...

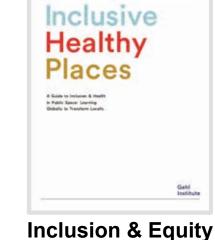




Covering a range of topics...









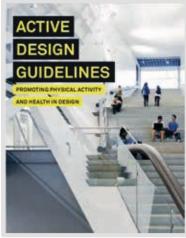
Healthy Streets for London Rooting waking, systing and public transport to create a fealthy sty

Streets

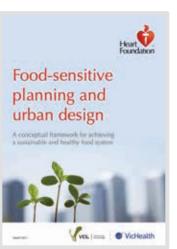




Ageing Population



Physical activity



Food



Beyond the Bathroom Gender inclusive planning and policy for public spaces.







Air Quality



Yet we still often have a siloed design and planning response

| REAL ESTATE |
|-------------------|
| HEALTHCARE |
| TRANSPORT |
| BUILDING SERVICES |
| BUILDING DESIGN |
| SUSTAINABILITY |
| PLANNING |
| MASTERPLANNING |



INTEGRATED DESIGN

Yet we still often have a siloed design and planning response

| REAL ESTATE | ≻ | | | |
|-------------------|--------|-----|-------------|------|
| HEALTHCARE | ТЕСҮ | | NO | |
| TRANSPORT | STRATI | | USIO | È |
| BUILDING SERVICES | లు | E | NCL | ABI |
| BUILDING DESIGN | VISION | HEA | × مې | TAIN |
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| MASTERPLANNING | S | | | |

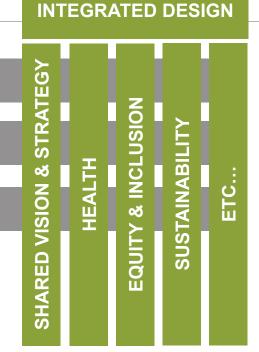


Continued need for integrated design

Break out of siloed approaches

Define what is good against a broad range of criteria

Show that we can make healthy places...it is our job!





Continued need for integrated design

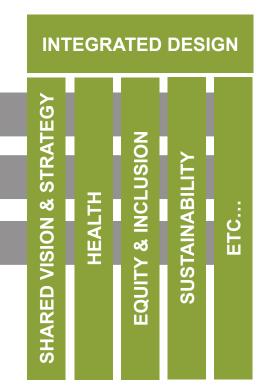
Break out of siloed approaches

Define what is good against a broad range of criteria

Show that we can make healthy places...it is our job!

Buildings cannot cure people. Mirko Zardini*

There is no moral duty on architects to incorporate cures into their work. Peter Murray*



*Quoted from Horton (2012) who paraphrased the original speakers

A new Framework for Healthy Urban Design & Planning



Developing and testing the Framework





Accompanying evidence-based design strategies & monitoring indicators



Test via Participatory Workshops & Implementation in Live Project



Final Framework



Preliminary interview findings



19 participants in China, UK and USA

Architecture Urban design Engineering Planning Sustainability Health isn't a new objective for us

The technologies and standards have shifted rapidly

Client & occupant expectations are shifting rapidly

Health & Sustainability are inextricably linked

They develop bespoke design approaches

Potential limitation: Speaking to 'the converted'?



Preliminary literature review findings



Importance of Planetary & Ecosystem Health

Importance of Equity & Inclusion

Co-benefits & Unintended consequences

Healthy design & planning frameworks

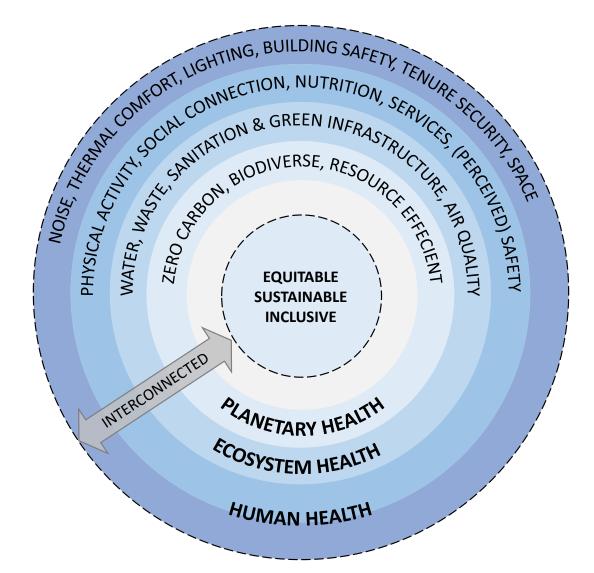
Health Impact Evidence, using Reviews Focus from individual factors moving out

Siloed nature of current guidance

Uncertainty of evidence base but need to act



A new PRELIMINARY Healthy Urban Design and Planning Framework



(Pineo, 2019)



Three Core Principles

Sustainability: Triple bottom line with environment typically deprioritised

Equity: Recognises unfair differences in health caused by unfair distribution of health-promoting resources.

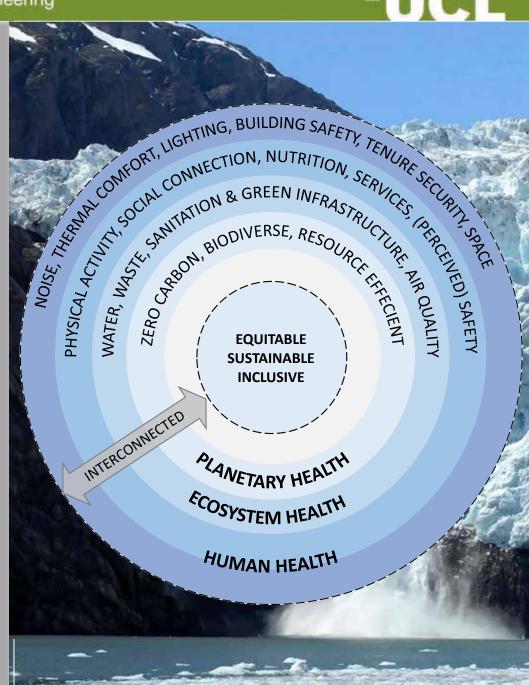
Inclusivity: Individuals' characteristics (e.g. age, gender, race) may require different design considerations.



Three Scales of Health Impact

Relates to spatial scales of policy and development.

Recognises that decisions taken in a city can impact health at a global level.



Planetary Health

'the health of human civilisation and the state of the natural systems on which it depends.' (Whitmee et al., 2015)

Goals: Zero Carbon, Biodiverse, Resource Efficient

Core Principle Links (e.g. equity): Poor people emit least carbon, but most vulnerable to climate change impacts.

Good looks like: The Bullitt Center, Seattle, WA, USA



Ecosystem Health

Ecosystems are 'webs of connections between living and non-living system components' and they are foundational to human health. (Buse et al., 2018)

Goals: Water, Waste, Sanitation & Green Infrastructure, Air Quality

Core Principle Links (e.g. inclusive): Children, older people and those with existing conditions are disproportionately harmed by air pollution.

Good looks like: East Village, London, UK



Human Health

Two spatial scales: neighbourhood and building

Neighbourhood Goals: Physical Activity, Social Connection, Nutrition, Services, (Perceived) Safety

Building Goals: Noise, Thermal Comfort, Lighting, Building Safety, Tenure Security, Space

Interconnections across 3 Scales: e.g. Physical Activity

Good looks like: Grow Community, Bainbridge, WA, USA



Preliminary Framework – Currently being tested

Currently funded by Guy's and St Thomas' Charity to implement and test the Framework at Royal Street.

Royal Street

Vision: 'An exemplar site for how to improve urban health through commercial property development'

Aims to draw on global best practice, alongside the charity's own work on urban health, to maximise the health and wellbeing benefits of the development.

GUY'S & ST THOMAS' CHARITY

Thanks also to part-funding from UCL Wellcome Trust funded project, Complex Urban Systems for Sustainability and Health (CUSSH)



References

Buse, C.G., Oestreicher, J.S., Ellis, N.R., Patrick, R., Brisbois, B., Jenkins, A.P., McKellar, K., Kingsley, J., Gislason, M., Galway, L., McFarlane, R.A., Walker, J., Frumkin, H., Parkes, M., 2018. Public health guide to field developments linking ecosystems, environments and health in the Anthropocene. J Epidemiol Community Health 72, 420–425. https://doi.org/10.1136/jech-2017-210082

Horton, R., 2012. Offline: An ignominious defeat. The Lancet 380, 94. https://doi.org/10.1016/ S0140-6736(12)61152-0

Whitmee, S., Haines, A., Beyrer, C., Boltz, F., Capon, A.G., de Souza Dias, B.F., Ezeh, A., Frumkin, H., Gong, P., Head, P., Horton, R., Mace, G.M., Marten, R., Myers, S.S., Nishtar, S., Osofsky, S.A., Pattanayak, S.K., Pongsiri, M.J., Romanelli, C., Soucat, A., Vega, J., Yach, D., 2015. Safeguarding human health in the Anthropocene epoch: report of The Rockefeller Foundation–Lancet Commission on planetary health. The Lancet 386, 1973–2028. https://doi.org/10.1016/S0140-6736(15)60901-1

Thank you

Please send feedback and good practice examples!

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