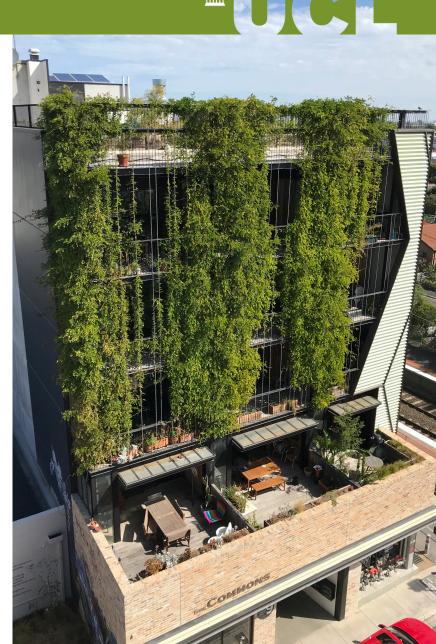
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A new approach to healthy urban design & planning

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





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



There are many existing standards and guidance documents...



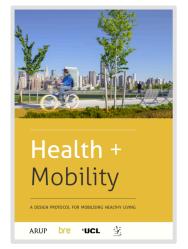








Covering a range of topics...



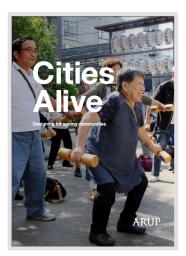
Transport



Streets



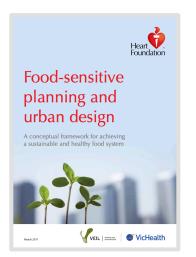
Inclusion & Equity



Ageing Population



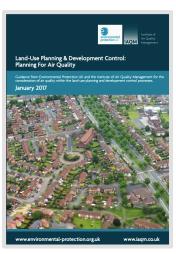
Physical activity



Food



Gender



Air Quality

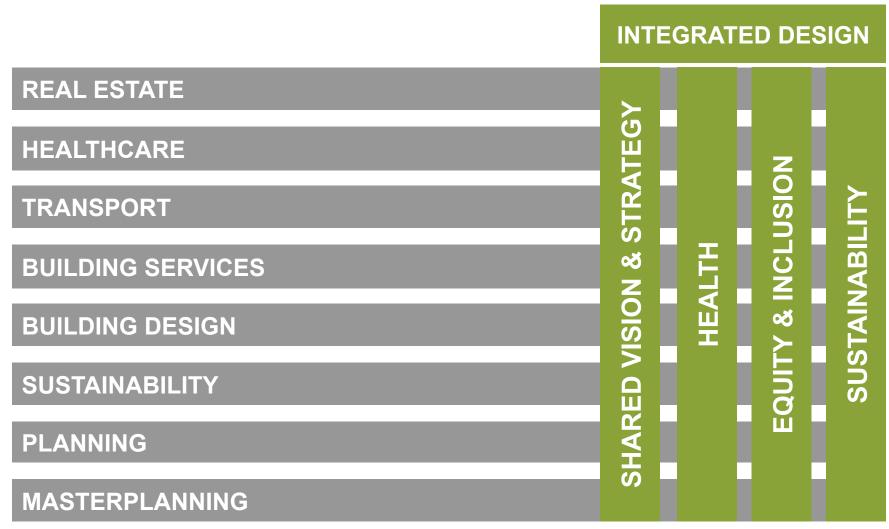


Yet we still often have a siloed design and planning response

REAL ESTATE
HEALTHCARE
TRANSPORT
BUILDING SERVICES
BUILDING DESIGN
SUSTAINABILITY
PLANNING
MASTERPLANNING



Yet we still often have a siloed design and planning response





Continued need for integrated design





Continued need for integrated design

INTEGRATED DESIGN Break out of siloed approaches SHARED VISION & STRATE 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*







Developing and testing the Framework



Interviews (Design & Planning Professionals)



2-Part Literature
Review
(Health Impacts &
Frameworks)





Preliminary Framework



Accompanying evidence-based design strategies & monitoring indicators



Test via
Participatory
Workshops
&
Implementation in
Live Project





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

Focus from individual factors moving out

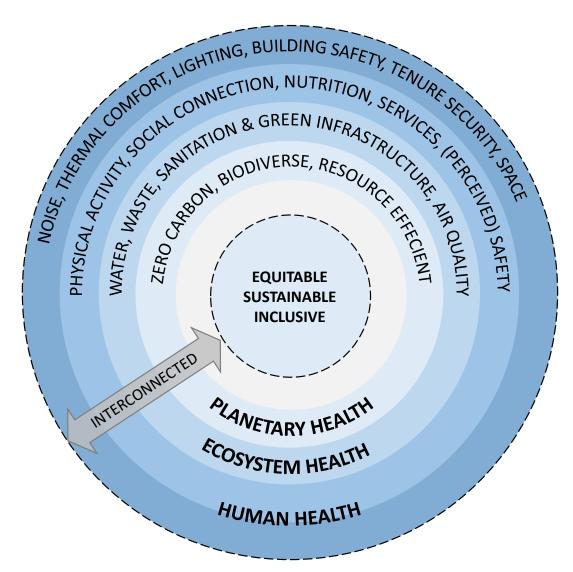
Health Impact Evidence, using Reviews

Siloed nature of current guidance

Uncertainty of evidence base but need to act



A new PRELIMINARY Healthy Urban Design and Planning Framework





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

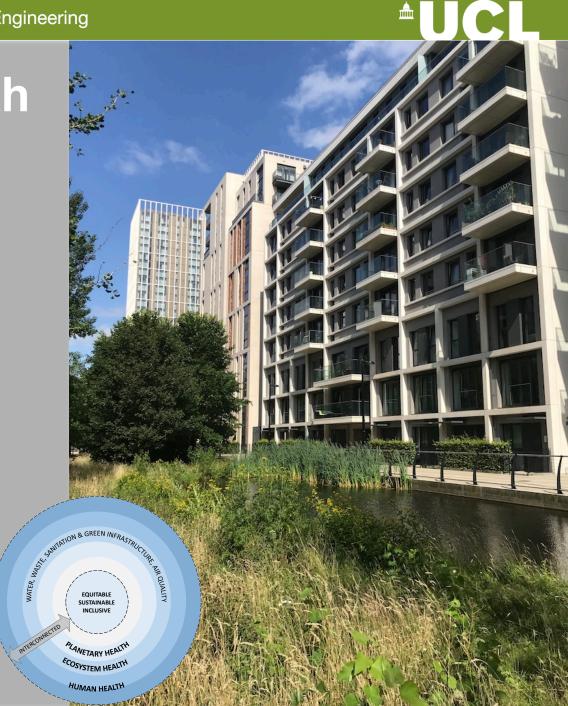
Ecosystems are 'webs of connections between living and non-living system components' and they are foundational to human health. (Buse et al., 2018)

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 &
STTHOMAS'
CHARITY

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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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