



Tackling Root causes Upstream of
Unhealthy Urban Development

HAUS application in Bristol

Dr Anna Le Gouais
Research Fellow, University of Bristol
Researcher-in-Residence, Bristol City Council
Anna.LeGouais@bristol.ac.uk | Anna.Le-Gouais@bristol.gov.uk



University Consortium



Local Authority Partners

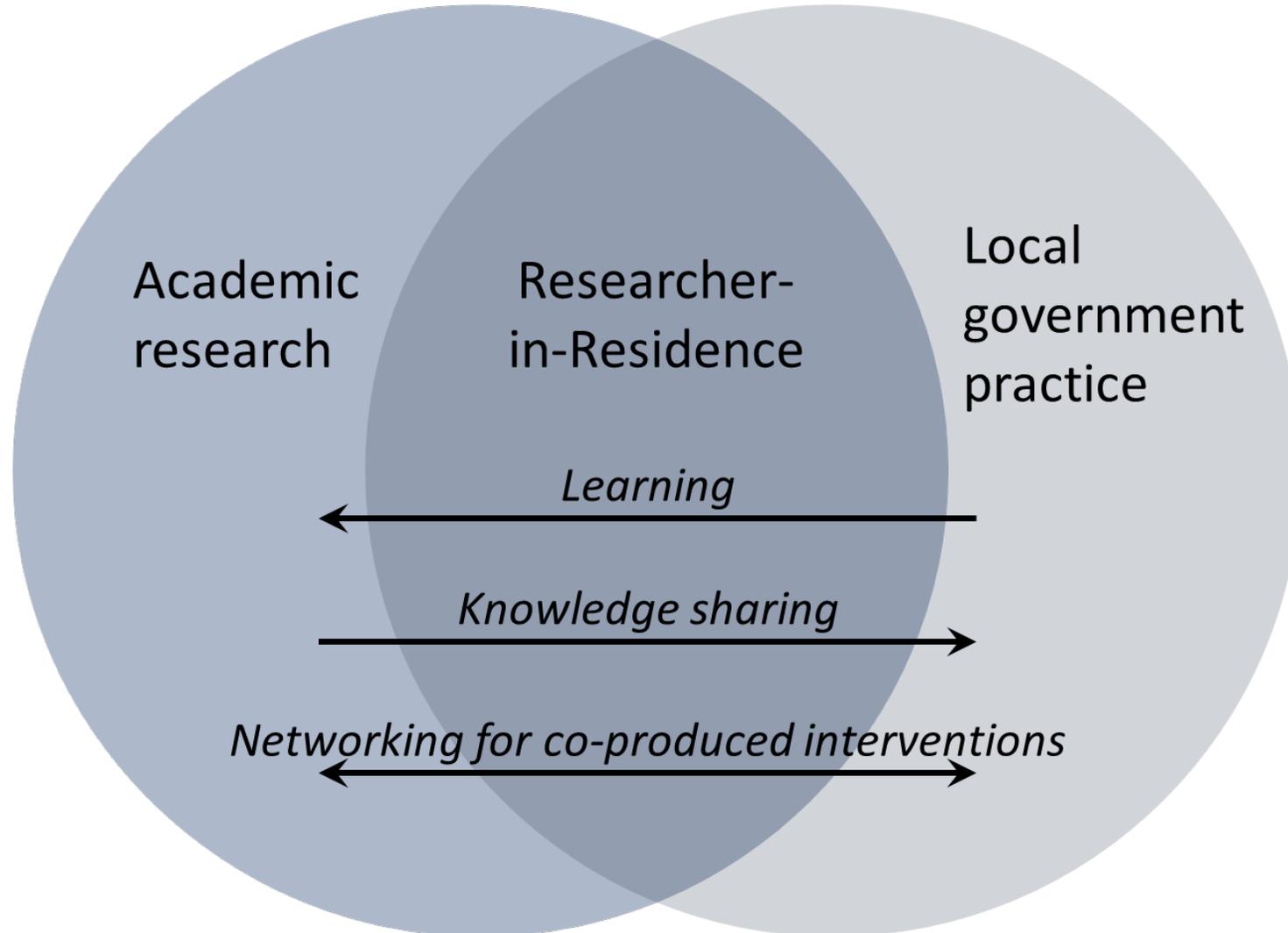


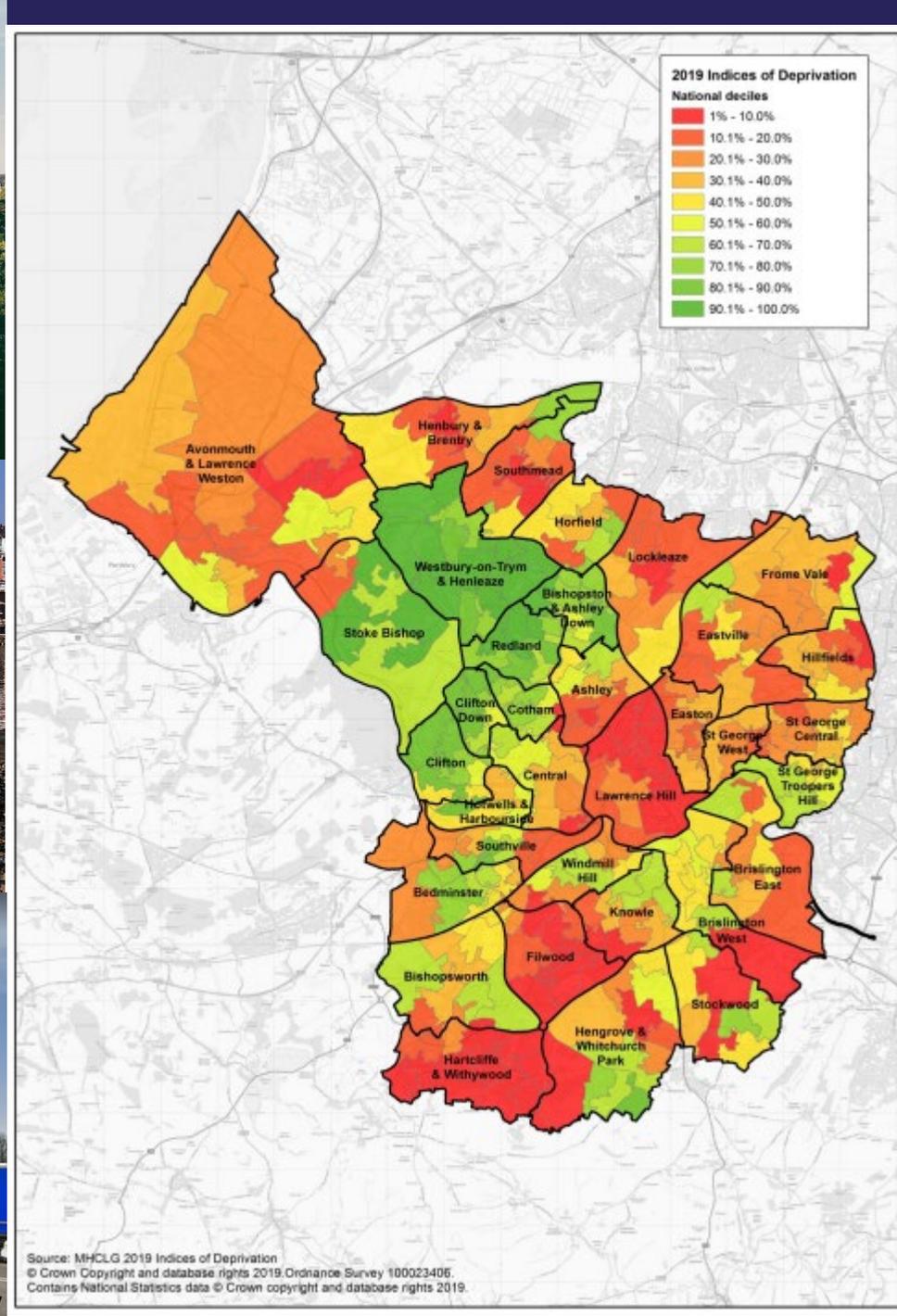
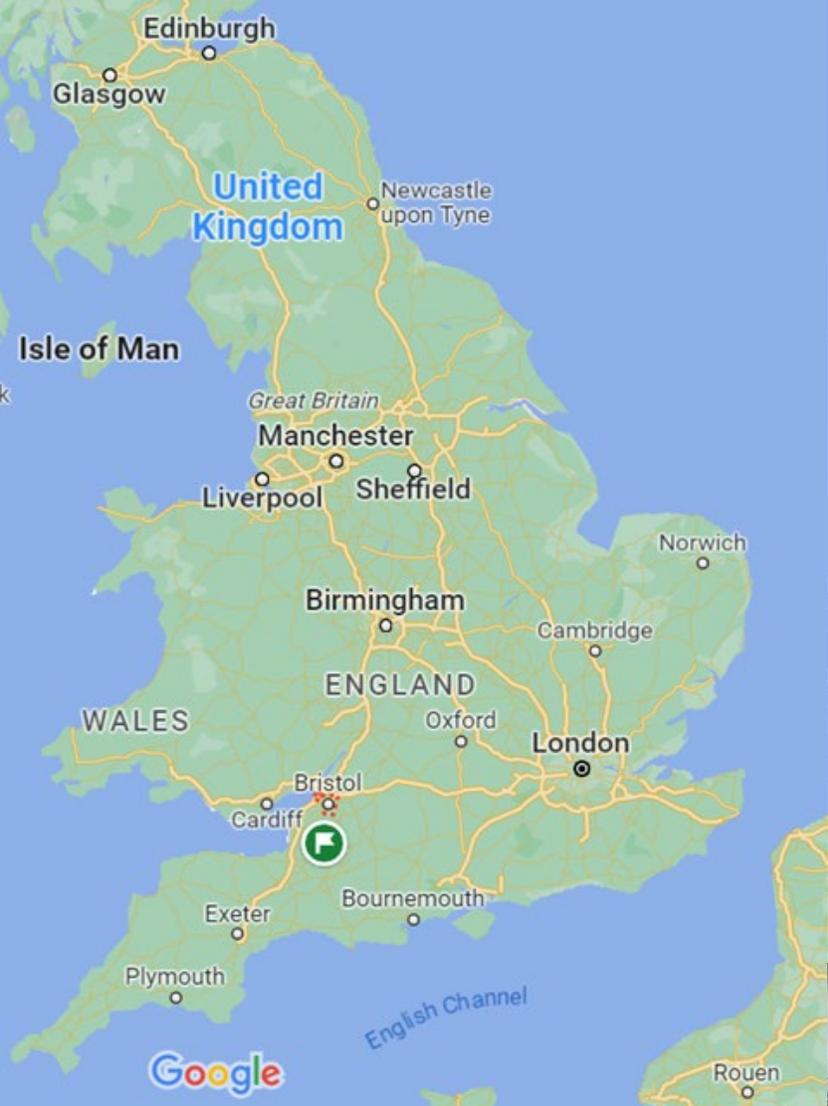
Research Funders



Professional Membership Partners







Bristol



The Regeneration Framework



Long-term vision and principles for development in an area of change:

- Priorities for delivery
- Strategic guiding principles (not detailed design)

Primary targeted at developers and landowners

Used to guide and determine planning applications ('material consideration')

Kick-start multiple individual projects

Drive long-term co-ordination

Produced in collaboration with the community and other stakeholders



Applying HAUS: Highlighting health impacts

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Permeability/
walkability



Greenspace: proximity & size
Greenspace: aesthetics
Greenness/NDVI



Fear of crime



Transport infrastructure
Transport noise



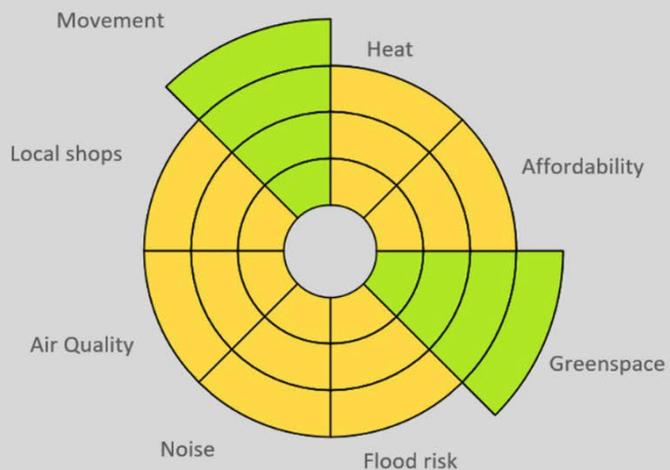
Flood risk

Applying HAUS: Showing trade-offs

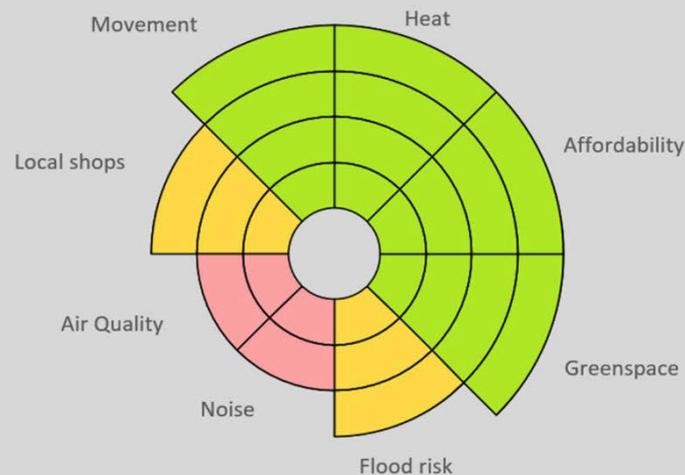
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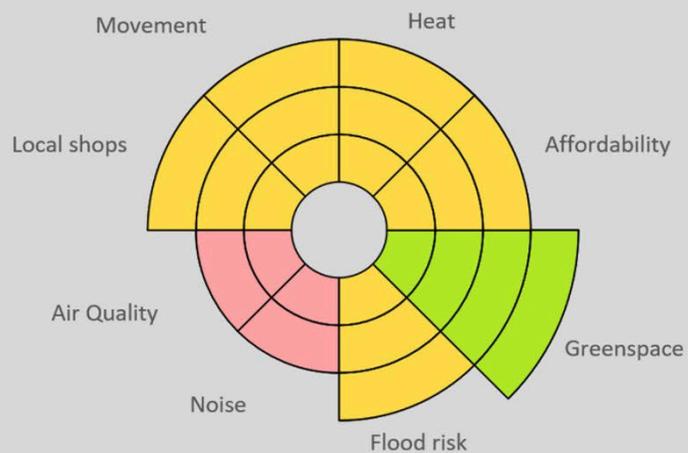
Scenario 1: Policy Baseline



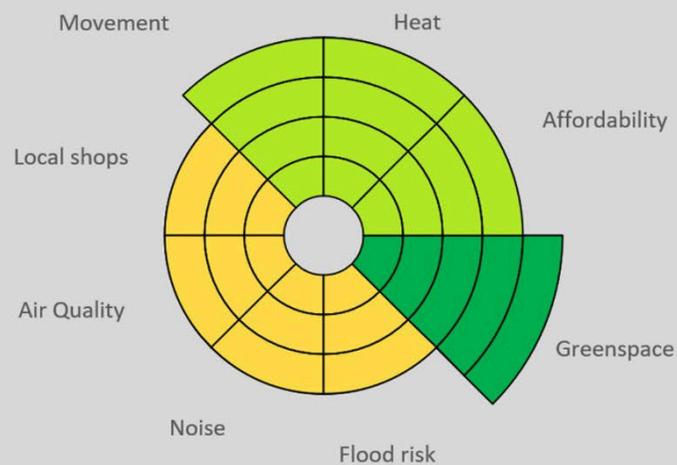
Scenario 2: Enhanced Housing



Scenario 3: Enhanced Employment



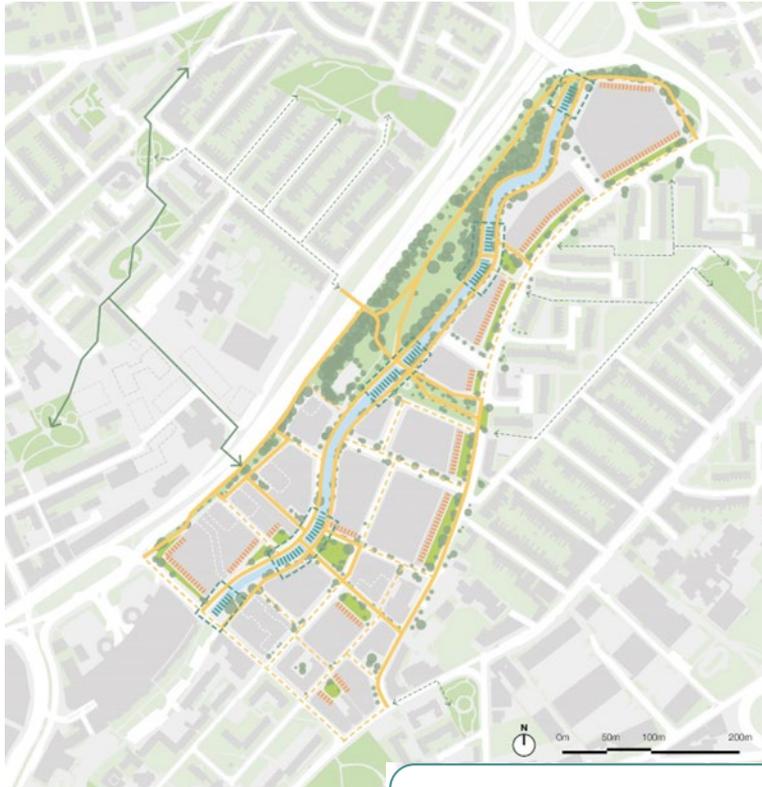
Scenario 4: Climate Resilient



Key: health outcomes



Green & blue spaces



+1.0Ha new public green spaces

Sum of proposed 'Pocket Parks'

Improvements to green space quality and quantity could bring **£30 million additional benefits**, through improved mental health, and reduced risk of cancer and childhood obesity.

Health Outcomes



Green space 'Big move'



Provision of additional green space through a single unit, rather than dispersed across the site, may bring further reductions of risk of diabetes, to a value of **£21 million.**

Health Outcomes



Key

-  Development Footprint
-  River Frome
-  Proposed public space
-  Existing enhanced public space
-  Land Exchange Concept
-  BCC Ownership
-  Private Ownership
-  Flood Zone 3 Extent

Estimated changes to **health of residents** within 300m of the site boundary (TRUUD Research findings):

- 80% reduction in mental health problems (active women 18+)
- 25% reduction in diabetes / pre-diabetes in adults
- 19% reduction in childhood obesity (ages 9-12)
- 11% reduction in cancer (mouth and throat)

Indirect and long-term cost savings for Bristol City Council and other public sector bodies associated with a healthier, more resilient community

Applying HAUS: Health impacts of the framework

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Frome Gateway Spatial Regeneration Framework
January 2024



The estimated overall societal value of health benefits from the framework approach is around £80-£100 million, compared to an unmanaged approach

Health Outcomes



Prolonged exposure to housing costs above 30% of income can have a negative impact on mental health, increasing risk of mental disorders

Health Outcomes



Air pollution has the largest health impact of any factor at Frome Gateway, with current levels potentially increasing risk of premature mortality by around 6%. This could result in 1,700 premature life years lost, and result in health costs of £175 million. It is unlikely to reduce significantly without reduced traffic on Newfoundland Way.

Health Outcomes



Compared to low walkability areas, **high walkability areas are associated with a reduction in risk of depression by around 68%** for men over 65. Walkability improvements for the site could **improve health valued at £23 million** by increasing activity and reducing risk of conditions such as diabetes and weight gain.

Health Outcomes



Poor perceptions of the neighbourhood at Frome Gateway may prevent some people from leaving the house – potentially leading to problems with mental health and weight gain. Improvements planned for the site could be worth £0.5 million just for these two conditions alone.

Health Outcomes



Frome Gateway Health Impact Assessment
October 2023



Contact

truud.ac.uk

truud@bristol.ac.uk

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