Rurban Revolution: Can ruralising urban areas through food growing create a healthy, sustainable & resilient food system?

Project Overview



www.lancaster.ac.uk/lec/rurbanrevolution @RurbanRev











Rurban Revolution

2.5 year project due to end Sept 2021, Funded by Global Food Security Programme





Brings together an interdisciplinary team to explore the benefits of rurbanisation in the UK









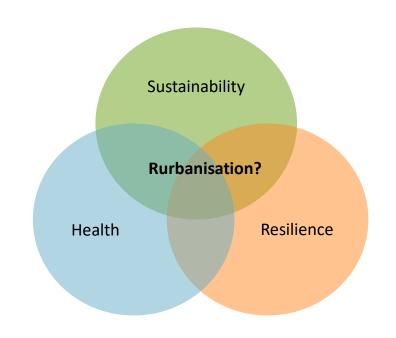


Aim

Build an initial interdisciplinary evidence base...

...that helps us understand the potential that 'rurbanisation' may have for transforming our food system...

...in terms of health, sustainability and resilience.













What do we mean by "rurban"?



Who: Community-led, corporate, public

How: Low tech & high tech

Where: Private gardens, public spaces, disused spaces, redevelopment

What: Focus on fresh fruit and vegetables











Approach







Crosssectional & longitudinal surveys

Systematic review

Citizen science

Field & Lab work

Interviews

Key questions

- How much fresh fruit and vegetables could we produce in UK urban areas and how does this compare with domestic production and imports?
- How does proximity or engagement in food growing affect health and dietary change?
- How does ecosystem service delivery in urban growing spaces compare to green spaces?
- What would rurbanisation mean for food quality and safety?
- What are the barriers and opportunities for rurbanisation?













Boosting fresh fruit & vegetable supply sovereignty and resilience

- Urban green spaces could support at it's upper limit 4x domestic production+imports of UK grown fruit and vegetable categories.
- For all town/city regions we analysed, urban greenspace could support more than the recommended dietary guidelines of 165 kg of FF&V per year for their local populations
- More than 50% urban greenspace is private residential and private amenity grounds – targeting use of these spaces

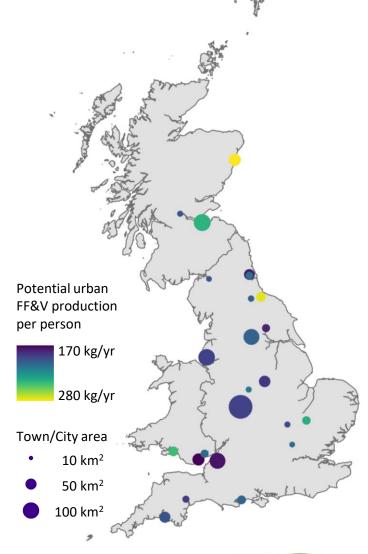
Walsh, Mead, Hardman, Liu, Falagan, Kourmpetli, Evans & Davies (manuscript in prep.)

Geospatial analysis













Boosting dietary health and well-being

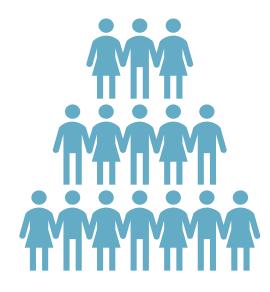
- Proximity to and engagement with urban food growing is associated with better dietary quality
- Linked to healthy and ethical food choice motivations
- During covid crisis those engaged in, or exposed to urban food growing felt less stressed and had better perceived access to food during lockdown one

Mead, Christiansen, Davies, Falagan, Kourmpetli, Liu, Walsh, & Hardman. *Appetite* 163 (2021) 105218 https://authors.elsevier.com/c/1coGZiVKTZiia

Crosssectional surveys



UK Cross sectional surveyN = 583 Participants













Boosting ecosystem service delivery

- Food growing spaces can offer many of the ecosystem service benefits of greenspaces
- Pollination and biodiversity win-wins can be created through combining edibles and non-edibles
- Growing spaces beyond community gardens, allotments, and garden contexts are less well studied (e.g. green rooves, edible walls, indoor food growing)

Evans, Falagan, Hardman, Kourmpetli, Liu, Mead & Davies (manuscript in prep.)





WWF Living Planet Report 2016











Safety and quality of urban grown food

• Air, soil and vegetable produce quality from our household growing study, Lockdown Lettuce, is currently being analysed

Falagan et al. (manuscript in prep.)



Field & Lab work

Citizen science



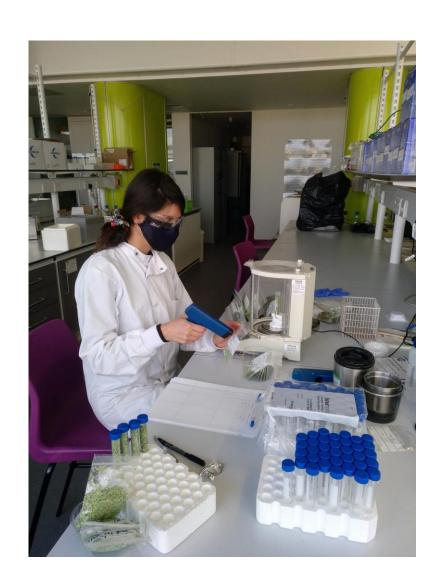












New projects: Rurban hope spots





Urban Agriculture Consortium

- Finding the hope spots: win-wins for people and environment
- Starts next week!
- Lead researcher: Rachel Marshall
- Adding food growing into the Hope Spot tool and trialing in Lancaster District







Thank you

Staying in touch

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www.lancaster.ac.uk/lec/rurbanrevolution

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