# Urban Greenspace Interventions

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Healthy Urban Microbiome Initiative

International Programme Director



Bournemouth, Poole and Dorset councils working together to improve and protect health

Aging Population

Growing Inequality

Obesity

Health & Social Care Stress

Rethinking Public Health Services



Dorset, Bournemouth and Poole



London



# 6,000 ha 5,000 km



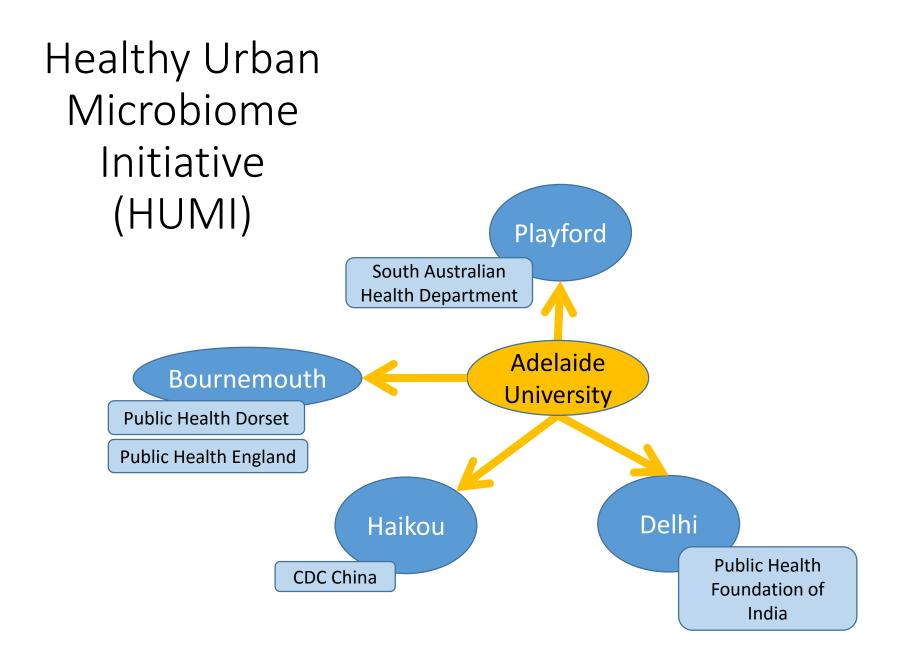
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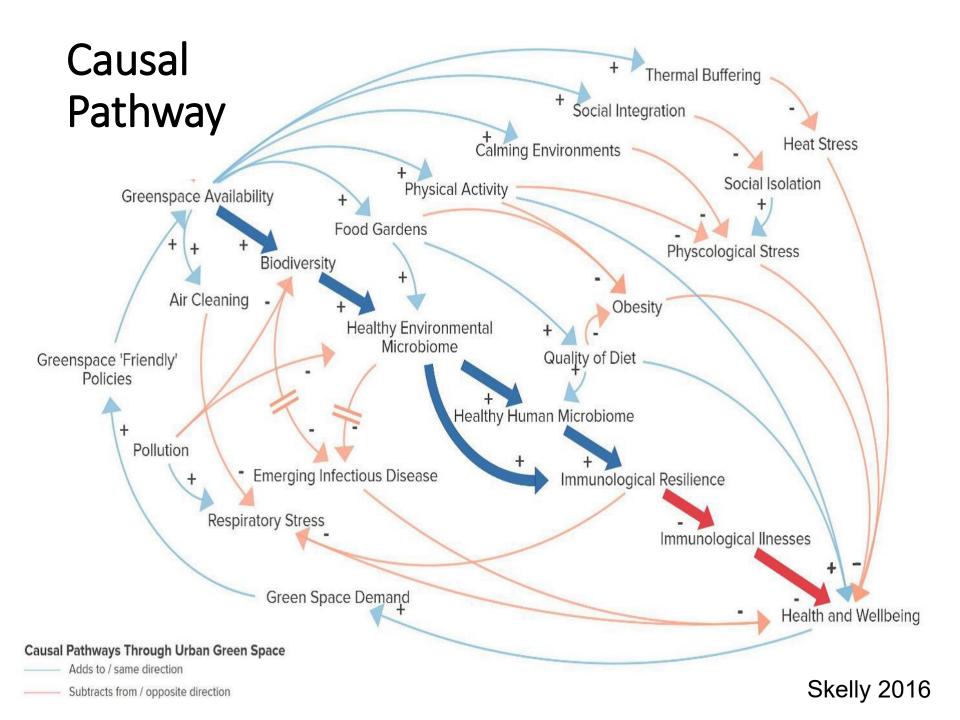


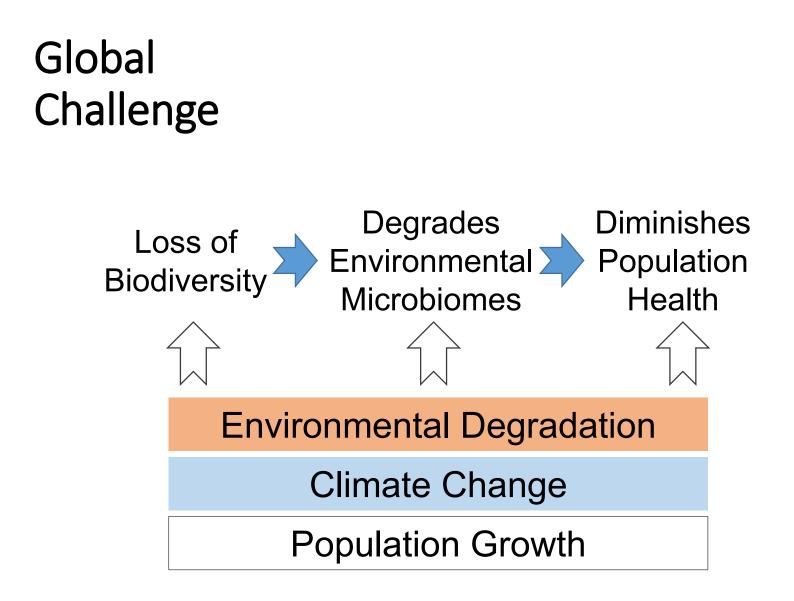
Humanity is still rapidly urbanising. We are more removed from natural microbiomes. Can the science of microbiomes be used to write a global prescription? A microbiome is an ecological community of microorganisms and their collective genomes.

# Problem, not solution.





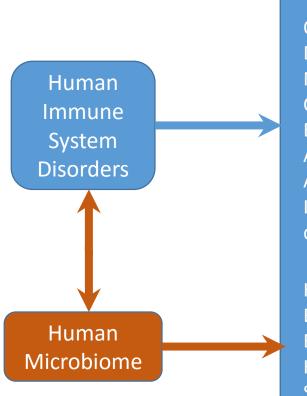






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# Microbiomes and Human Health



## **Physical Health**

Obesity Diabetes Metabolic disorders Cardiovascular disease Eczema Allergic disorders Asthma Inflammatory bowel disease

Heart rate Blood pressure Blood cortisol Healing time Susceptibility to infection Birthweight



## Pilot Project 1: reality check.

Frontiers in Ecology and the Environment



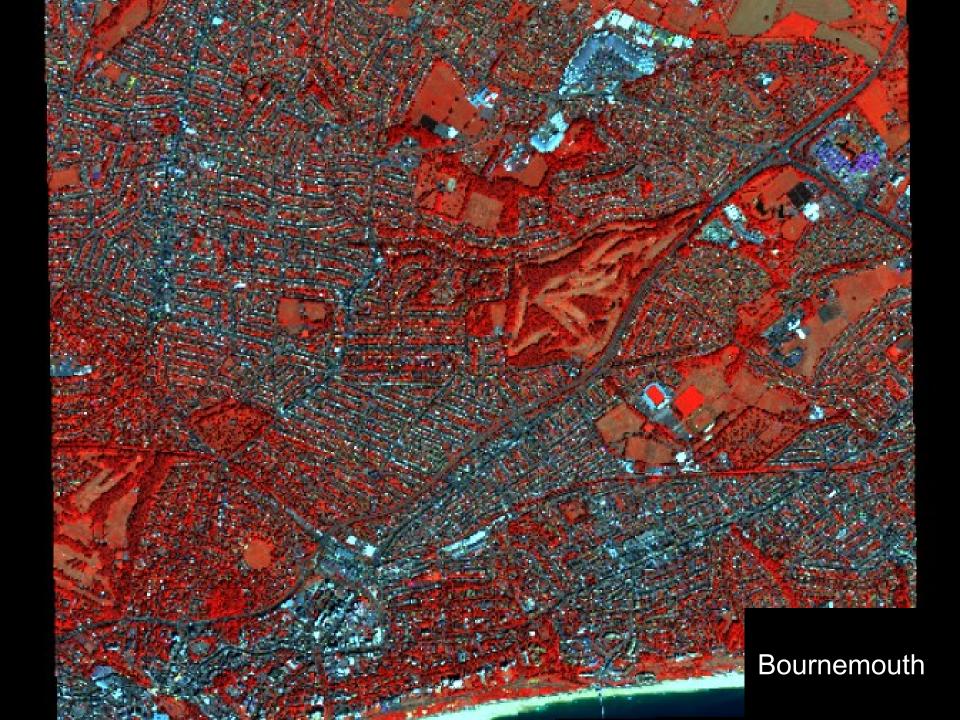
#### Biodiverse green spaces: a prescription for global urban health

Journal:	Frontiers in Ecology and the Environment
Manuscript ID	FEE17-0102.R1
Wiley - Manuscript type:	Concepts & Questions

## **Pilot Project 2:** International greenspace measurement.

Playford

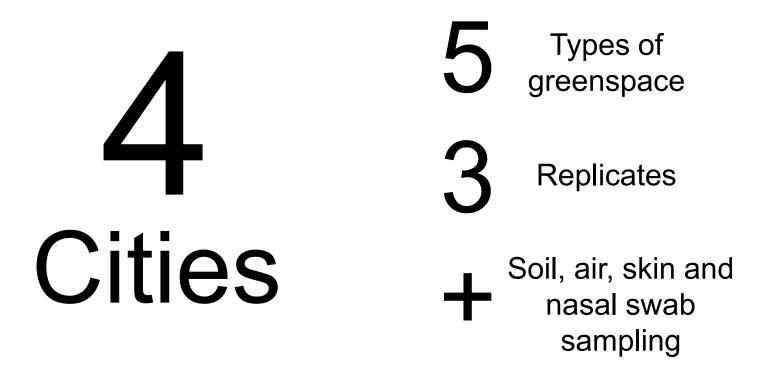






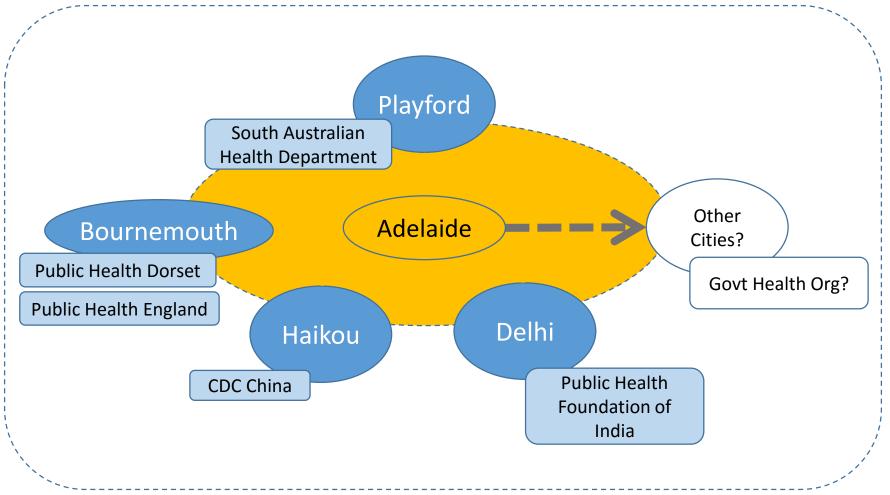
# Pilot Project 3:

Measuring environmental microbiomes internationally.





## **Initiative Governance?**



### Symposia

#### **Environmental Microbiomes and Human Health**





## My Global Prescription

Biodiverse urban design

Microbiome cultivation

Intervention trials

Pocket parks



#### HUMI Team

Research Lead, Professor Weinstein, University of Adelaide

#### **Regional Partners**

CDC China

Public Health Foundation of India

Public Health England

South Australian Department of Health



Skelly 2016