WORK PACKAGE 2: ENVIRONMENTAL DATA FOR THE SPACE PROJECT

DR SHAY MULLINEAUX

SPACE

SUPPORTIVE ENVIRONMENTS FOR PHYSICAL & SOCIAL ACTIVITY, HEALTHY AGEING & COGNITIVE HEALTH

This work was supported by **UK Research and Innovation** [ES/V016075/1]

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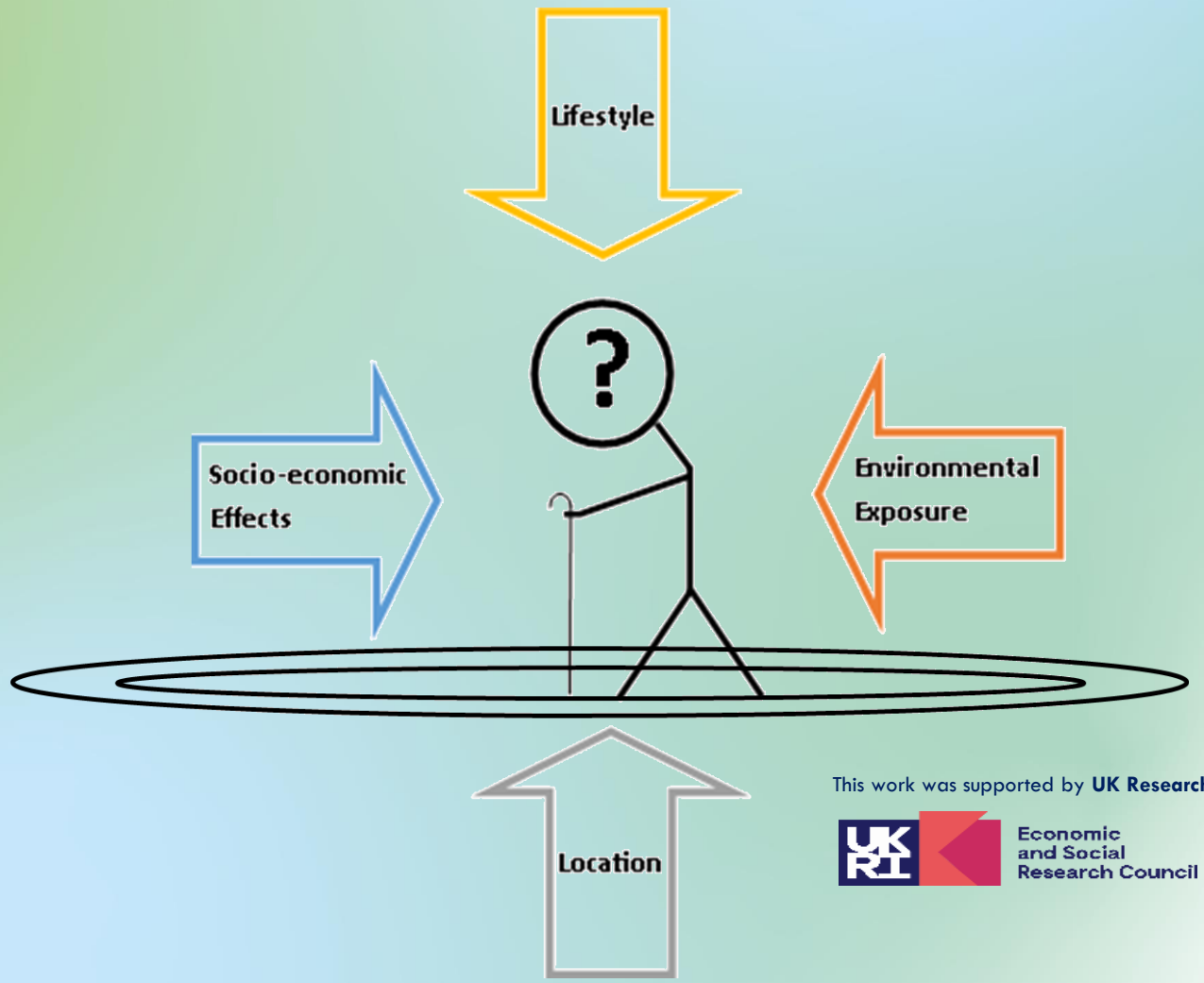
SPACE RESEARCH PROJECT APPROACH



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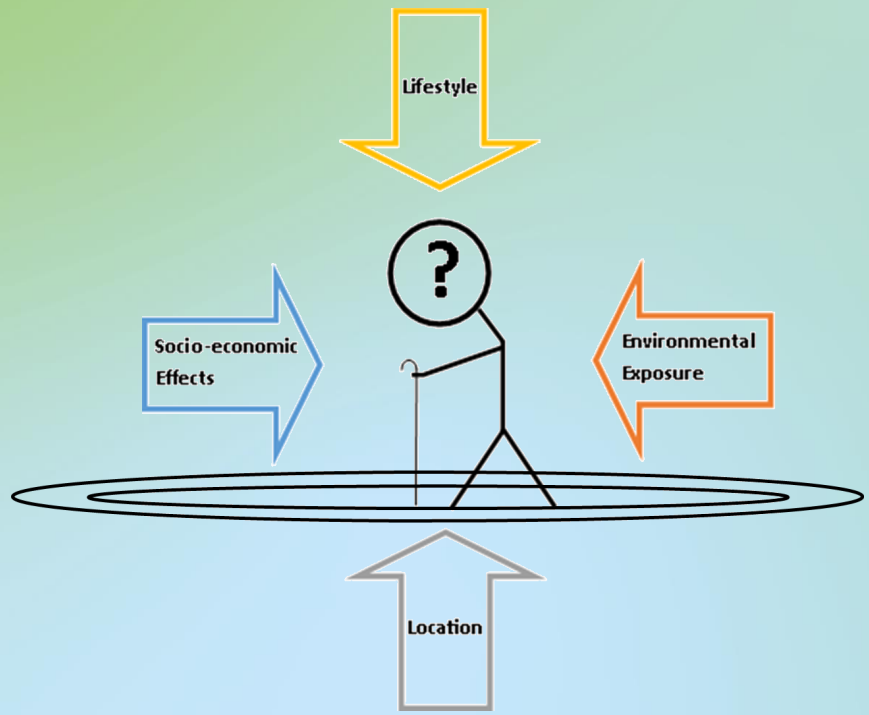
RESEARCH OBJECTIVES

Objective 1: What are the effects and pathways between the local environment and health outcomes?



Objective 2: Synergies between Environmental variables:

- Soil Geochemistry/Geophysics
- Air Pollutants
- Noise
- Light
- Proximity to stressors
- Green/Blue space access
- Access to built infrastructure

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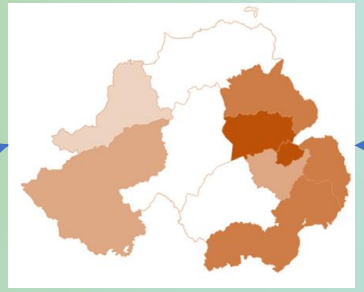
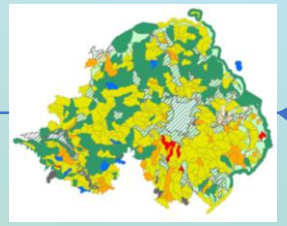
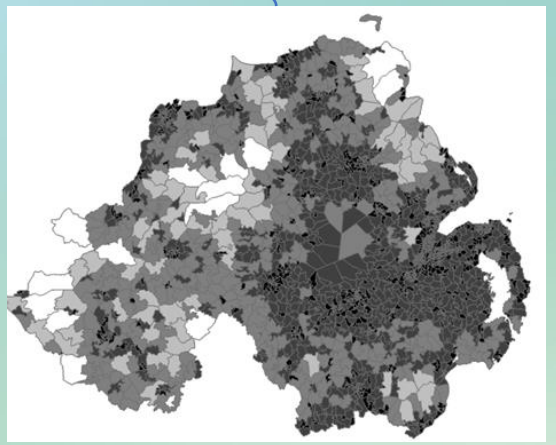
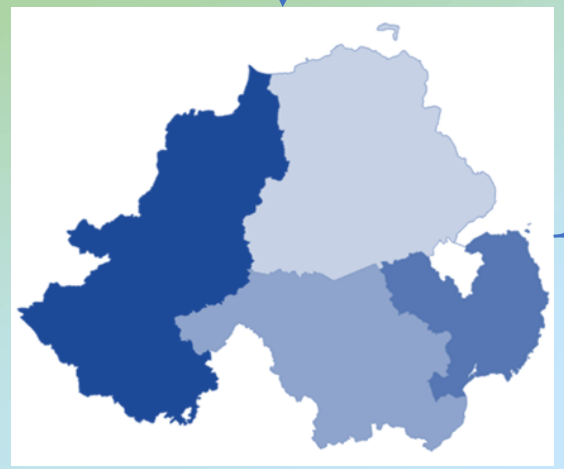
MANY DATATYPES AVAILABLE

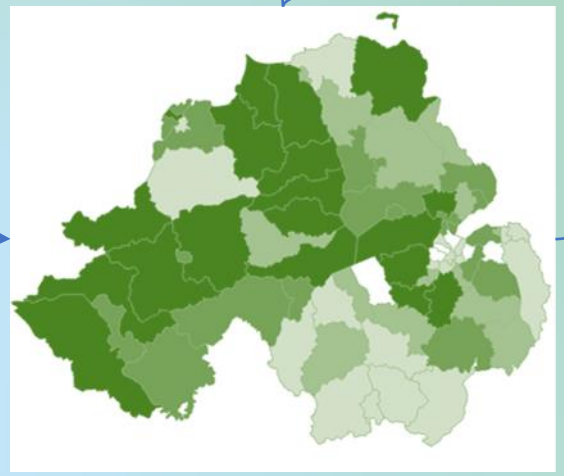


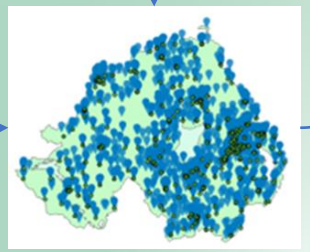




Integration of data, what are the synergies between them?







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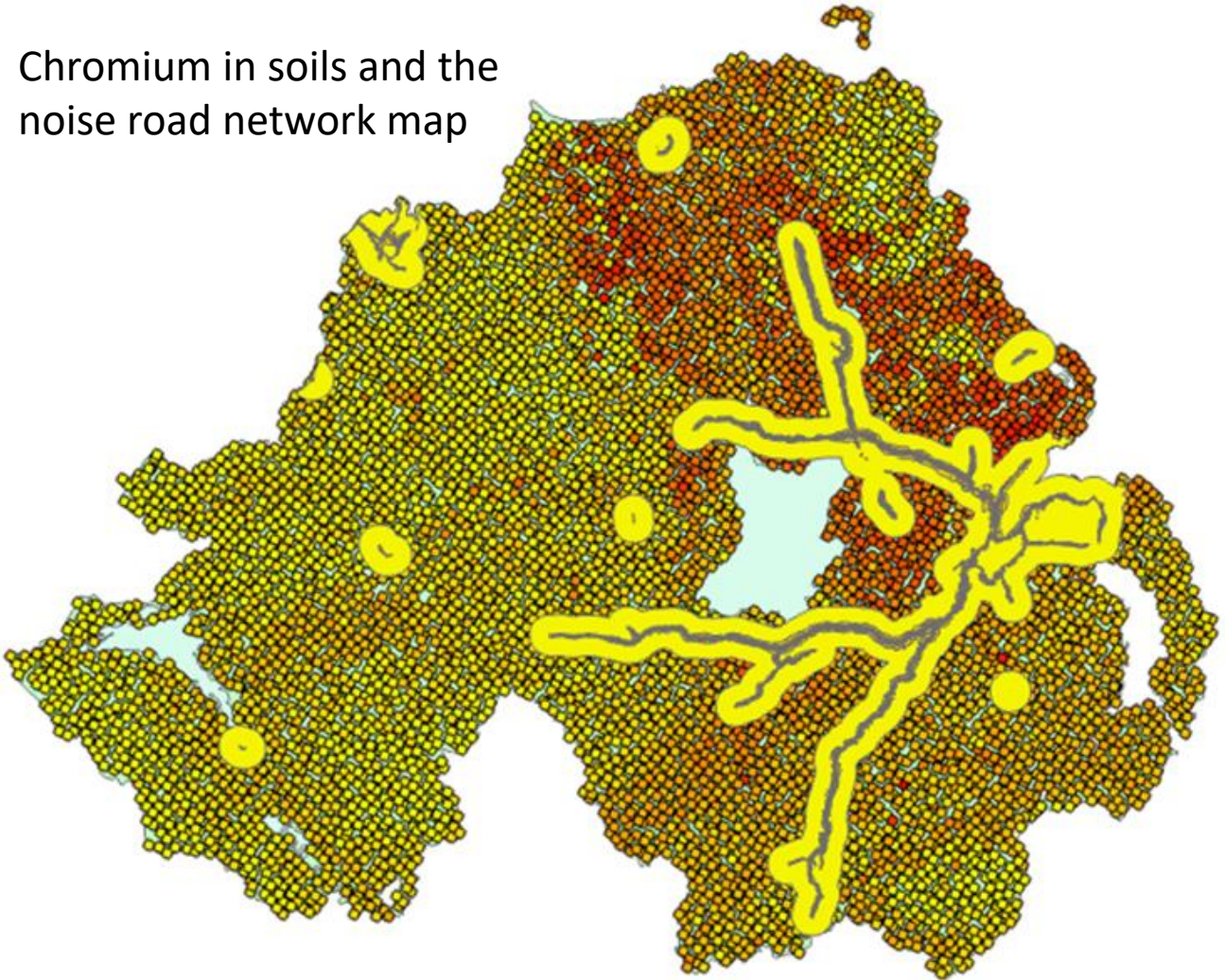
An Integrated Approach to Data across different Environmental Spheres and its Implications for Health

Chromium in soils and the noise road network map



How do different environmental pollutants and variables combine and lead to negative health outcomes?

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ENVIRONMENTAL HEALTH AND POLICY

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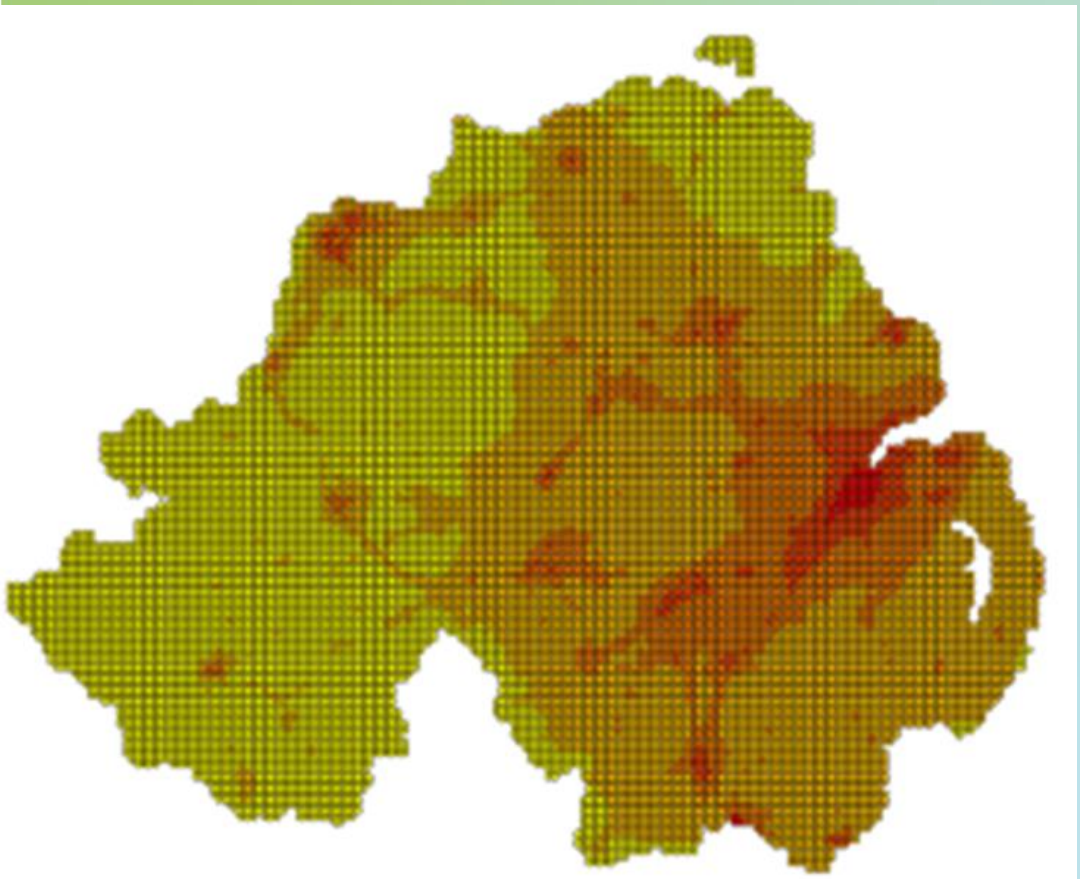

What interventions can be made in the special environment to lead to healthier long term cognitive outcomes?

Should air pollution be reduced?

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OUTCOMES FROM GEOSPATIAL ANALYSIS

Environmental data will be linked to NICOLA participants

Data analysis will seek to show what synergistic effects the special environment has on cognitive health as we age

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