



Adopting a whole systems approach to net zero: a participatory systems mapping case study



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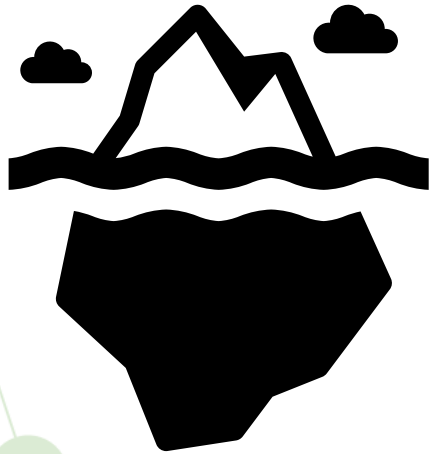
With thanks to: Dr Alexandra Penn, Dr Suzanne Bartington, Prof. Zongbo Shi, and the WM Net Zero team



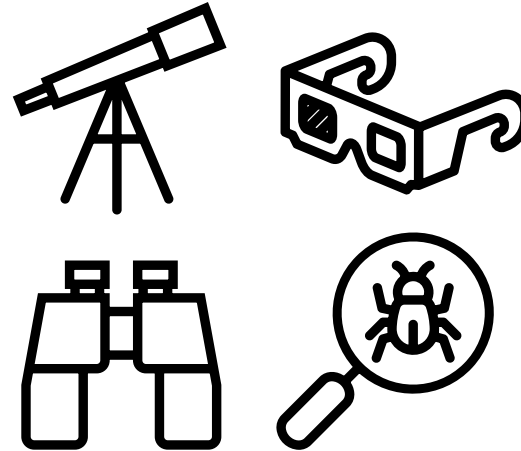
The WM-NetZero project is supported by Wellcome Trust (227150_Z_23_Z) under the Advancing climate mitigation policy solutions with health co-benefits in G7 countries scheme.



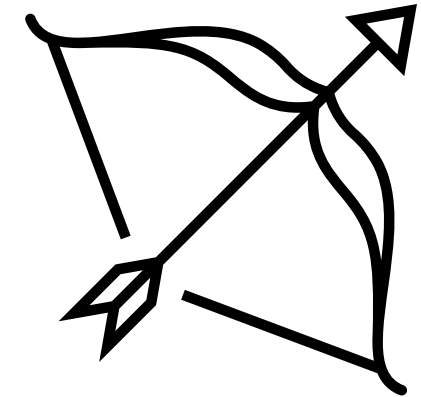
Navigating complexity in policymaking



**Complex adaptive
systems**



**Multiple perspectives
and distributed
knowledge**



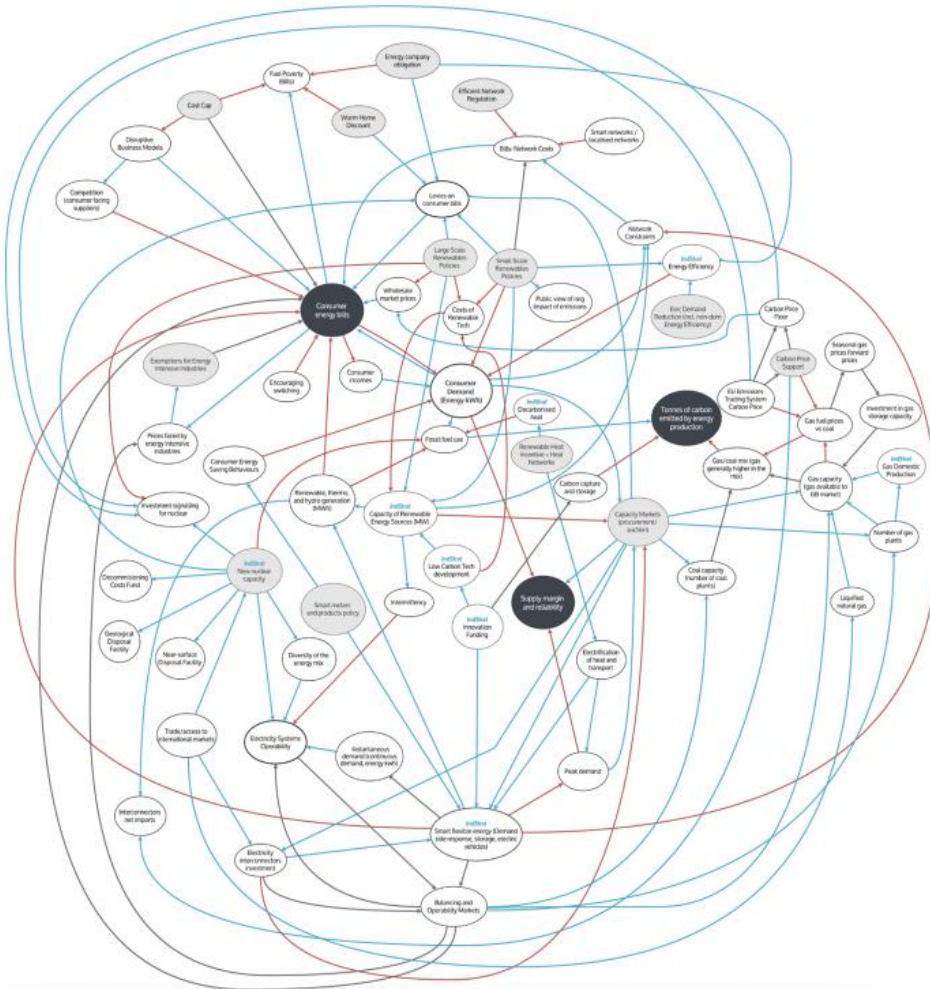
No silver bullets

Participatory Systems Mapping

WM-NET ZERO

A Health-centred Systems Approach Towards Net-Zero:
Transforming Regional Climate Mitigation Policies

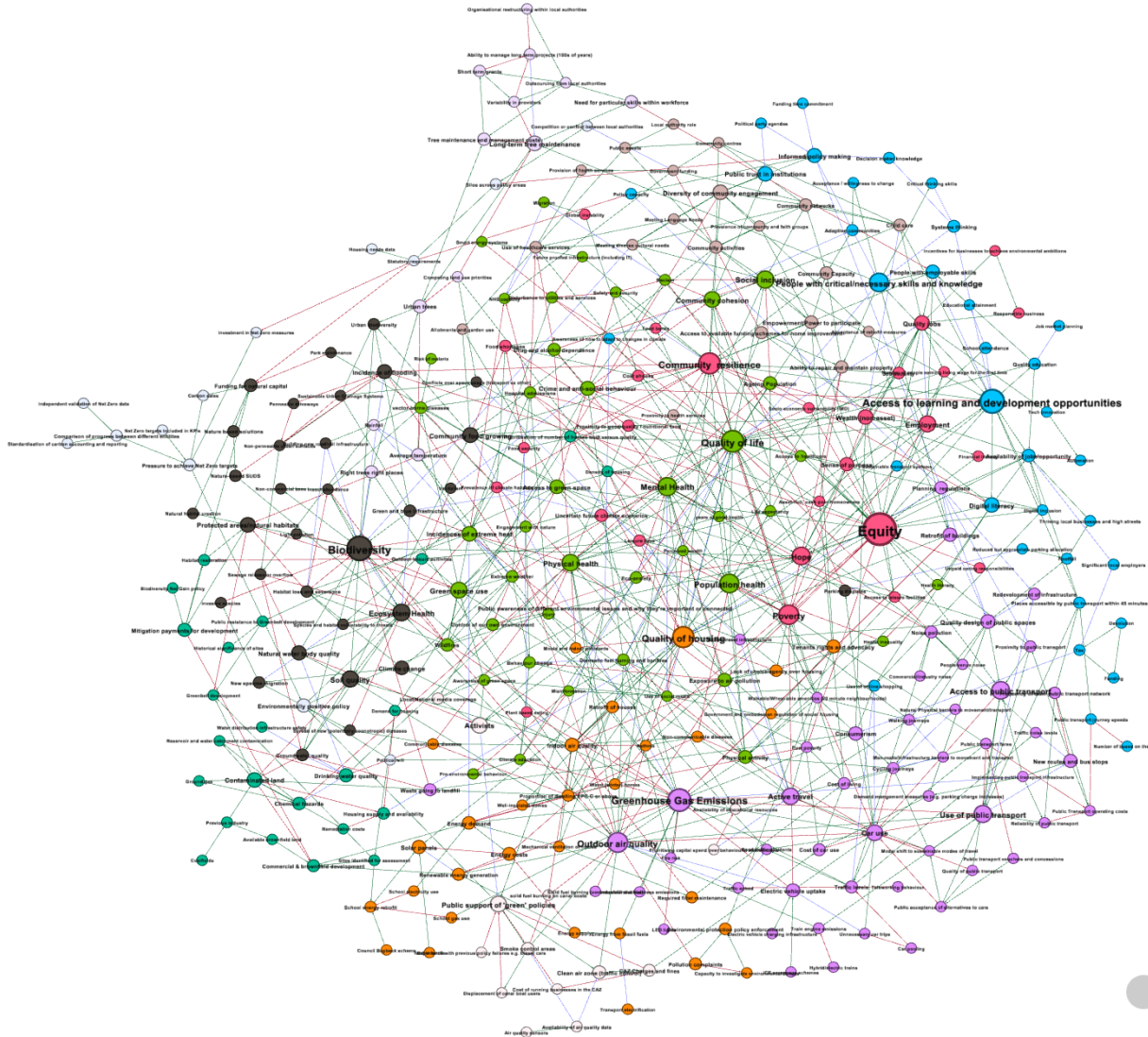
Invited participants collaboratively construct a simple causal model of their system, its components and drivers and their interdependencies



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Thriving Net Zero communities in the West Midlands



Out-degree	What are the most influential factors within the system?	Poverty / Quality of housing
Degree	What are the most important factors?	Quality of life
In-degree	Which factors have many different drivers?	
Betweenness centrality	Which factors influence many causal paths?	Equity

Future work

WM-NET ZERO

A Health-centred Systems Approach Towards Net-Zero:
Transforming Regional Climate Mitigation Policies

- A Local Authority co-created and owned toolkit for doing PSM
- Policy stress-testing and co-design of further analysis
- Methodological innovation: Integration of different data types in the design and creation of a Life course Assessment Tool which utilizes the maps and analysis
- A deeper look into how local authorities are managing complexity



WM-NET ZERO

A Health-centred Systems Approach Towards
Net-Zero: Transforming Regional Climate
Mitigation Policies

Thank you for your attention!

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Get involved and stay connected

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