

NETWORK ANALYSIS OF UK ENVIRONMENTAL CHARITIES

Owain Harris

CDT in Environmental
Intelligence

Supervised by
Hywel Williams

Individual and organisational networks

- Increase of connectivity, systems integration, and globalisation
- Study social structures and flows between actors in networks
- Climate discourse:
 - *Collaboration and communication*
 - *Sharing of resources and funds*
 - *Dissemination of (mis/dis)information*
 - *Efficiency of policy introduction/reinforcement*

Focus on charitable sector

- Public/private sectors dominate the mainstream conversation
- But all economic sectors work together
 - *Many pieces of the wide, complex picture*
- Capacity of charities as key actors in change
 - *More people are turning towards philanthropy*

LETTER

The growth of climate change misinformation in US philanthropy: evidence from natural language processing

Justin Farrell 

Yale University, School of Forestry and Environmental Studies, School of Management, Department of Sociology, New Haven, CT 06511, United States of America

E-mail: Justin.Farrell@Yale.edu

Keywords: polarization, philanthropy, climate change, natural language processing, computational social science, text analysis, misinformation

Supplementary material for this article is available [online](#)

INVESTIGATING THE COLLABORATIVE APPROACH TO CLIMATE CHANGE ADAPTATION IN GREATER MANCHESTER, UK

*Aleksandra Kazmierczak**

School of Environment and Development

University of Manchester, UK

Aleksandra.kazmierczak@manchester.ac.uk

Data and Methods

Extract data (25/01/22)

- UK Charity Commission data download service
- Information on charities, their trustees, and their aims

Clean data

- Remove non-registered organisations
- Identify environmental charities: 'environment/conservation/heritage'
- Combine information across sets based on IDs

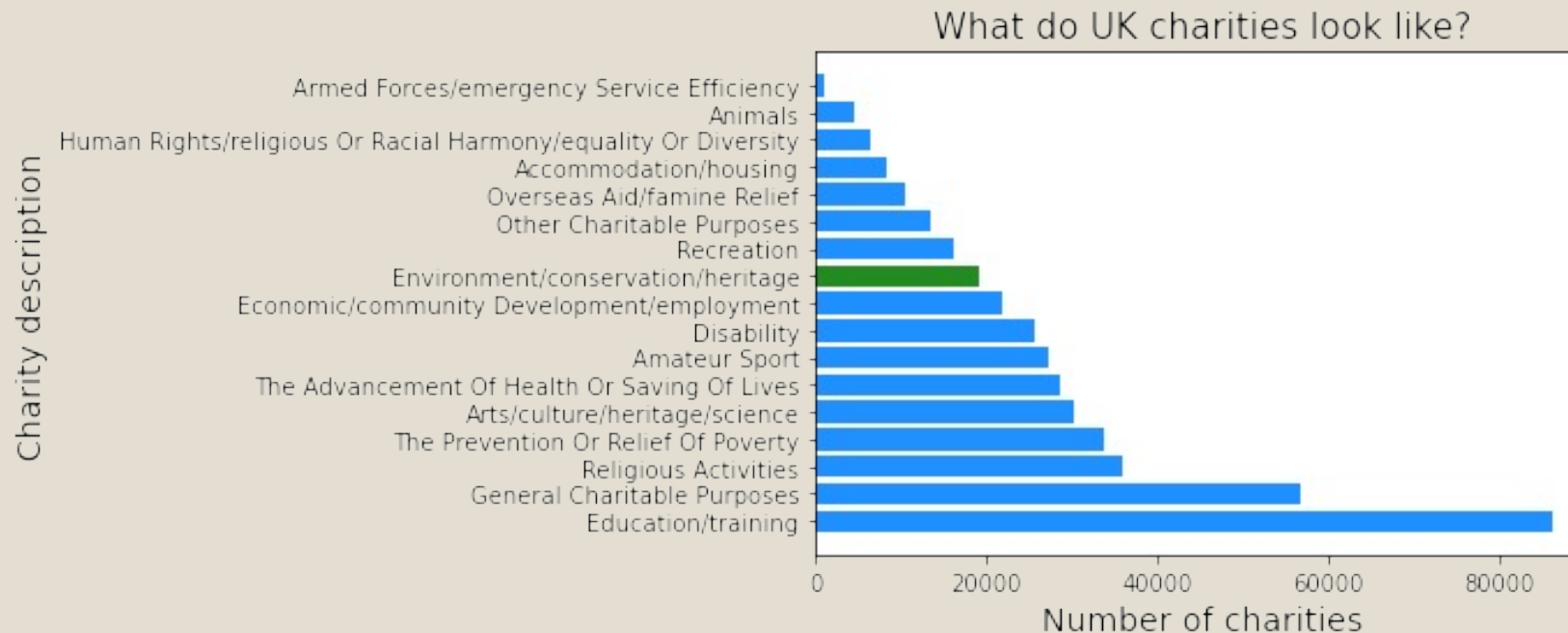
Establish connections

- Common purposes
- Shared trustees
- Shared charities

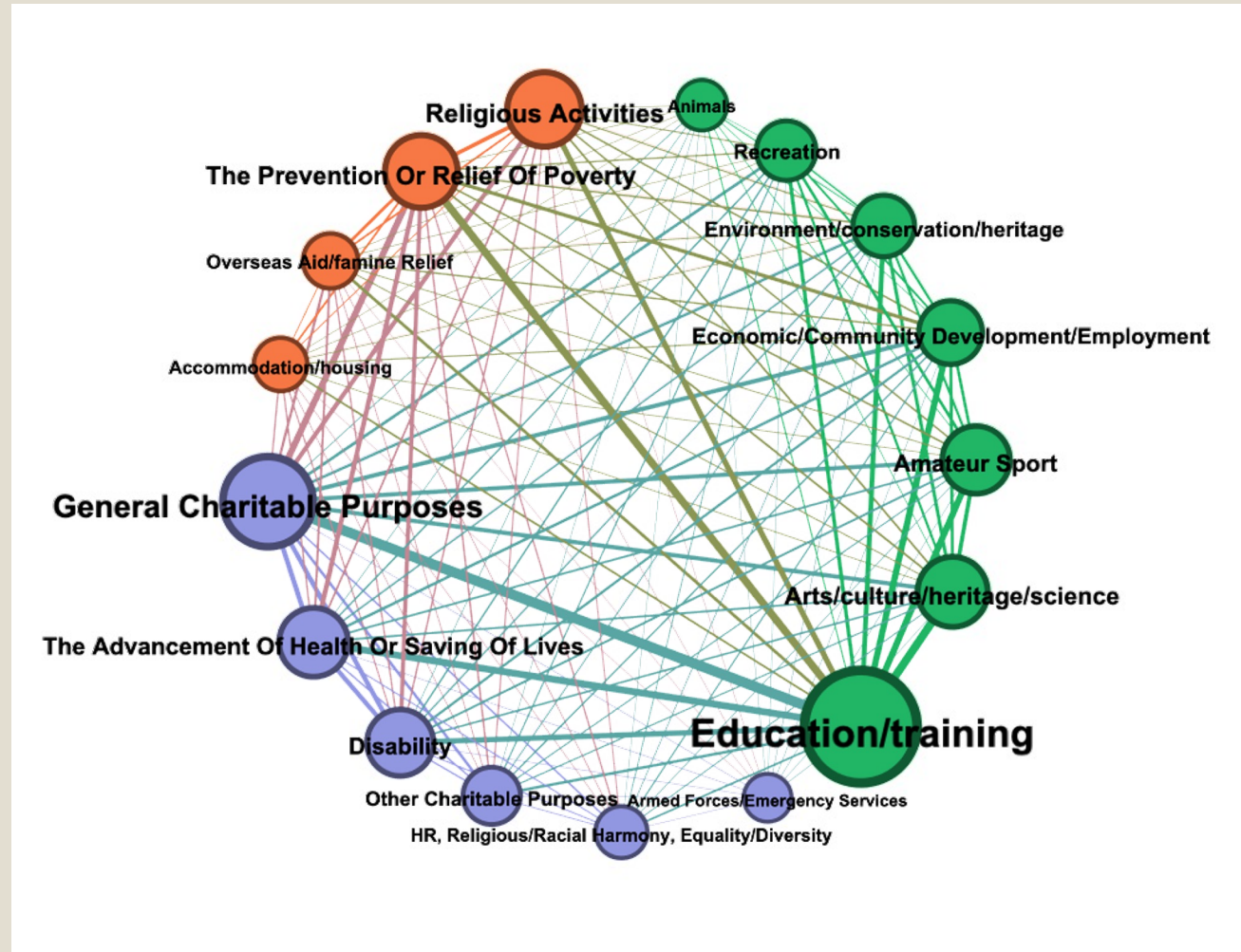
Network construction

- Calculate metrics of connectivity and importance
- Detection of communities and social/regional structures

What does the charitable sector look like?

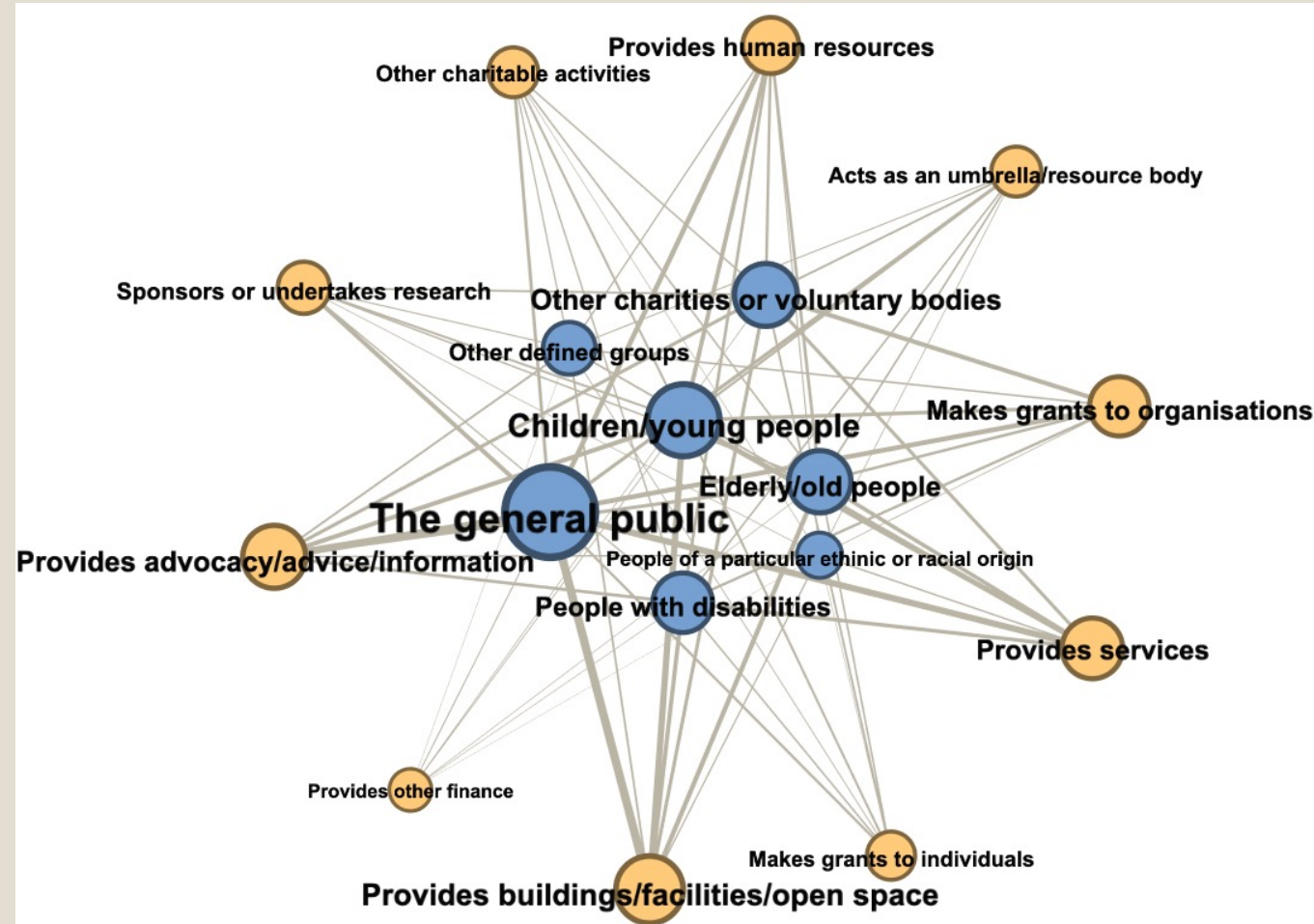


What does the charitable sector look like?



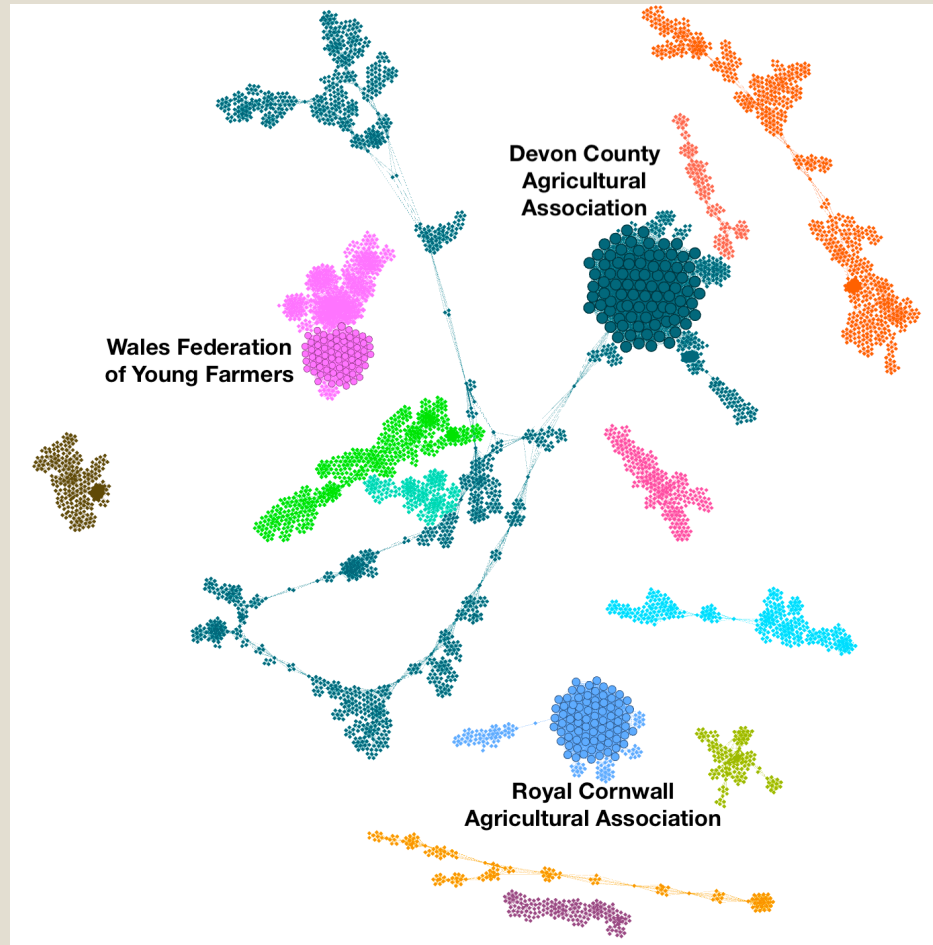
Nodes: Charitable purposes
Edges: Common charities
Node sizes: Number of charities

Who and how are environmental charities helping?

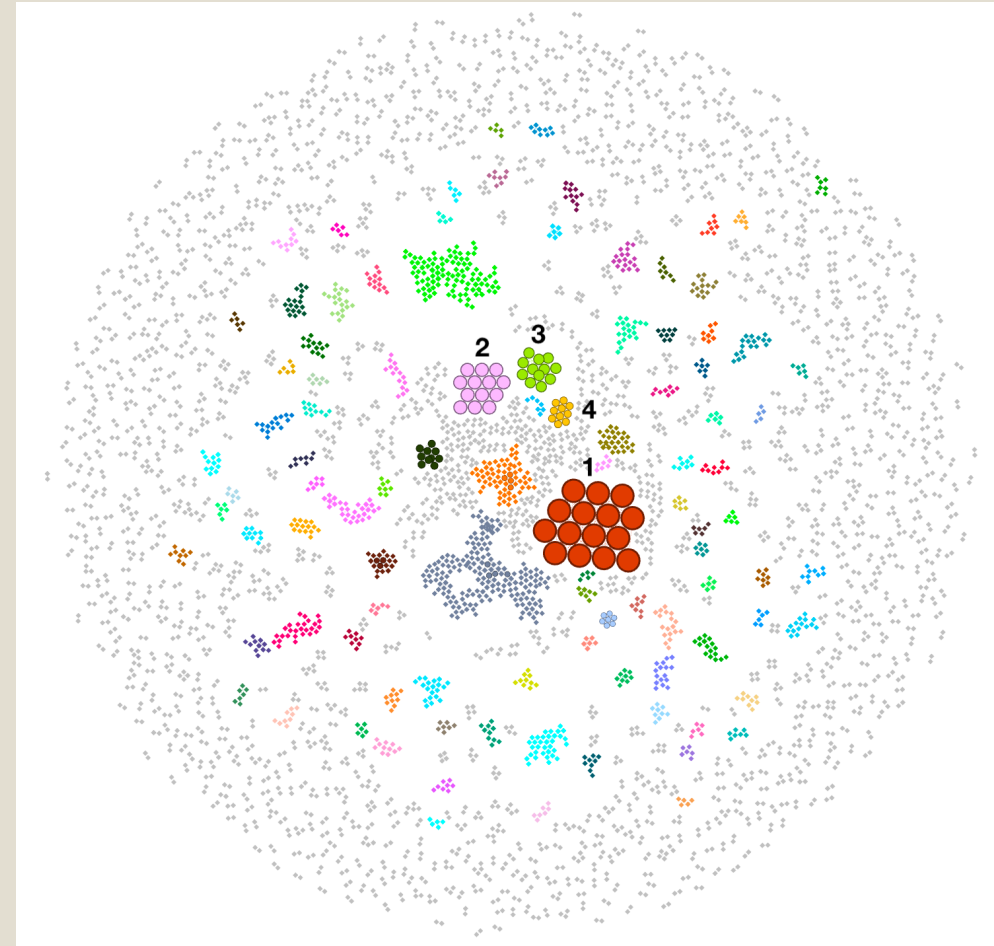


Nodes: Who and how aims
Edges: Common charities
Node sizes: Size of those aims

Are there any structures?



Nodes: Environmental trustees
Edges: Common charities
Node sizes: Eigenvector centrality



Nodes: Environment/conservation/heritage charities
Edges: Common trustees
Node sizes: Eigenvector centrality

Are there any structures?



Nodes: Environmental (green) and first-order non-environmental charities (pink)
Edges: Common trustees
Node sizes: Betweenness centrality

Future work

- Include all charities, and public/private sectors
- Refine classification of environmental charities
 - *Governing documents – NLP*
- Strengthen identification of social/regional structures

Questions?