

# Population Evidence and Data Science Logic Model

## Inputs



### Vision

Develop shared understanding to guide engagement with and use of population health data for service provision and research.



### People

- Core PEDS team and PhD students
- Community representatives
- ARC themes representatives and collaborators.



### Resources

- Core ARC infrastructure
- Core University support for ARC funded staff
- PEDS funds for engagement, PPI and dissemination
- Research funding from multiple sources.



### Strategic partnerships

Academic, service, community partners including:

- Links to Population in Focus
- Office for Health and Improvement disparities
- Local Authorities
- NHS & East Accord
- Integrated care systems
- East of England Population Health Reach Hub.

## Mechanisms of change (MoC)



### MoC 1

Improving knowledge on how local communities and vulnerable populations can be involved in the drive to use data to improve population health.



### MoC 2

Research and innovation to enhance the value of population health data for both health services and researchers.



### MoC 3

Facilitating engagement between researchers and health services, policy-makers and practitioners around the access and use of population health data.



### MoC 4

Increasing awareness of available population health data and its potential use for research.

## Outputs

- Logic model for project planning and evaluation in place
- Project prioritisation criteria agreed
- Strategic partnerships developed
- Development of projects and funding applications.



### Key Projects:

- Using data to improve health: are the public engaged? (PEDS01)
- Evidencing the Social Return on Investment of Age Friendly Community Initiatives (PEDS02)
- Bespoke SHAPE atlas (PEDS03)
- Deep Community Co-working and Co-Production (PEDS04)
- A scoping review of the evidence base on approaches to improving quality of data relating to health in equalities (PEDS05)
- Improving the quality of health inequalities data (PEDS06)
- Prevention and management of diabetes across Suffolk and North East Essex (PEDS07)
- Rapid review of barriers to access, linkage and use of local authority data (PEDS09)
- FAIR TREATMENT: Federated analytics and AI research across TREs for adolescent mental health (PEDS08)



### Resources:

- Knowledge Exchange Seminar series

## Outcomes



Increased knowledge of public understanding of and views on the use of population health data (MoC 1).



Identification of opportunities to increase access to and value of population health data for use by both services and academia (MoC 2).



Methodological contribution to the novel use of routine datasets (eg. social care data) in research and service evaluation (MoC 2).



Concrete involvement of services and community members in developed and newly funded projects (MoC 3 and MoC 1).



Mechanisms to enable academic - service engagement around population health data in place (MoC 3).



Processes in place to improve researchers' understanding of access to and use of population health data for research (MoC 4).

## Longer Term Impact



PEDS theme has added to existing scientific knowledge relating to use of population health data for health gain.



PEDS theme has left a lasting legacy through better access to data and ongoing collaboration between academic and service sector relating to population health data.



Better use of population health data to improve health of people living in the East of England through overall health gains, reduction in inequality and/or increased equity.

## Evidence



Metrics on engagement with theme activities, collaborative research funding, use of routine data in research.



Published papers, presentations to scientific and practice conferences.



Case study examples.