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Impacts of Climate Change on Health

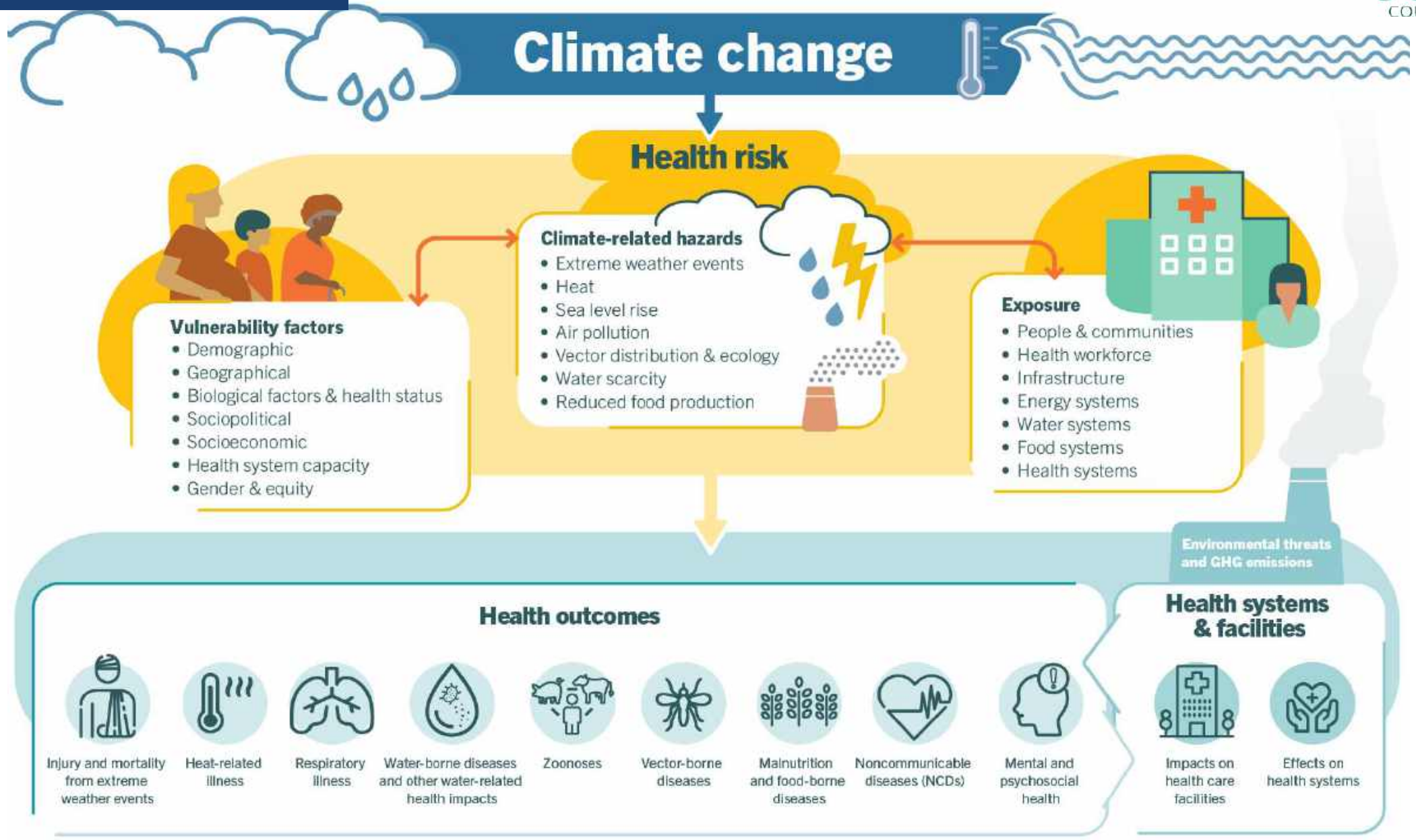
Head of Health Determinants Research Collaboration (HDRC) Surrey

Dr Negin Sarafraz-Shekary, Surrey County Council

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Impacts of Climate Change on Health

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Climate and Health Impacts: Transport

- Transport is the **largest greenhouse gas-emitting** sector in the UK, accounting for 28% of total emissions. Our transport system is largely road-travel dependent.
- Physical inactivity directly contributes to 1 in 6 deaths in the UK and costs wider **society £7.4** billion a year
- In the UK, **air pollution** is responsible for an estimated **28,000 to 36,000 excess deaths** a year, with the **health costs of air pollution** estimated to be between **£8.5 billion and £20.2 billion**



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Climate and Health Impacts: Housing

- Home energy use makes up **14% of UK greenhouse gas emissions**, mostly from fossil fuels.
- Inefficient energy use and rising prices contribute to **fuel poverty**, **affecting 13.4% of** households.
- Poor housing conditions **harm physical and mental health,** raising risks of heart disease, respiratory illness, accidents, and heat-related issues, especially among vulnerable groups.
- Better ventilation can improve comfort, reduce heat risks, and enhance **indoor air quality**.



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Climate and Health Impacts: Food System

- The foods most damaging to our health are often those with the highest emissions, pollution, land and water
- They contribute to diet-related diseases like **heart disease, diabetes, and cancer**.
- In the UK, **poor diets cost society £5.1** billion



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Climate Change Actions

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Mitigation



Adaptation

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Sustainable behaviours benefiting health and the environment



WALKING, CYCLING, PUBLIC TRANSPORT



REDUCING CONSUMPTION AND WASTE



ADOPTING PLANT-RICH DIETS



CONSERVING WATER IMPROVING ENERGY EFFICIENCY AT HOME



SUPPORTING LOCAL, SUSTAINABLE BUSINESSES

Source: [Can sustainable health behaviour contribute to ensure healthy lives and wellbeing for all at all ages (SDG 3)? A viewpoint - PMC]

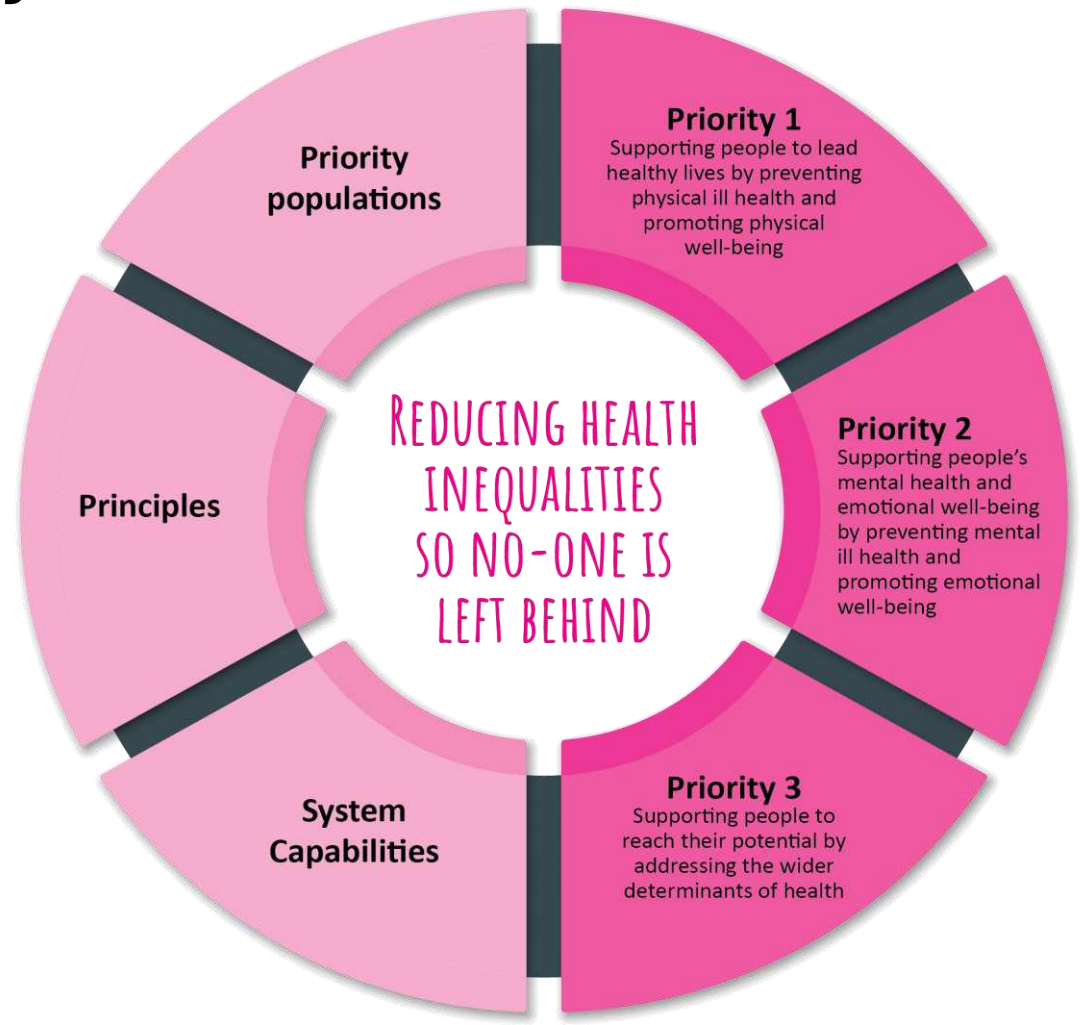
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Surrey Health and Wellbeing Strategy

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Priorities

1. Supporting people to lead healthy lives by preventing physical ill health and promoting physical well-being
2. Supporting people's mental health and emotional well-being by preventing mental ill health and promoting emotional well-being
3. Supporting people to reach their potential by addressing the wider determinants of health



Surrey Health and Well-Being Strategy - update 2022 | Healthy Surrey

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Surrey Joint Strategic Needs Assessment

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Health Behaviours

- Food and Health — View Chapter »
- Smoking, Vaping and Tobacco Control — View Chapter »
- Substance Misuse — View Chapter »
- Oral and Dental Health — View Chapter »
- Screening — View Chapter »
- Tuberculosis — View Chapter »
- Sexual and Reproductive Health — View Chapter »
- Perinatal Health — Not Yet Available

Population Groups and Communities

- Armed Forces Community — View Chapter »
- Multiple Disadvantage — View Chapter »
- Migrant Health — View Chapter »
- Children and Young People with Additional Needs and Disabilities — View Chapter »
- People with Learning Disabilities — View Chapter »
- People who are Racially Minoritised — Not Yet Available
- Gypsy Roma Traveller People — Not Yet Available
- People With Care Experience — Not Yet Available
- Unpaid Carers — In Development
- Neurodiversity — Not Yet Available
- People with Physical Disabilities and Sensory Impairment — Not Yet Available
- Older Age — Not Yet Available

Emotional Health & Wellbeing

- Children and Young People's Emotional Wellbeing and Mental Health Strategy 2022-2027 — View Chapter »
- Emotional and Mental Wellbeing in Surrey Adults — View Chapter »
- Loneliness and Social Isolation — View Chapter »

Wider Determinants of Health

- Housing — View Chapter »
- Economy — View Chapter »
- Community Safety — View Chapter »
- Education, Training and Lifelong Learning — Not Yet Available
- Transport — In Development
- Healthy Places — Not Yet Available
- Air Quality

https://www.surreyi.gov.uk/jsna/

Health Determinants Research Collaboration (HDRC) Surrey

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- Surrey County Council is **one of 30 local authorities nationally** to be awarded **5 years of funding** by the National Institute for Health and Care Research (NIHR) to create a Health Determinants Research Collaboration (HDRC).
- The funding will help improve how, as a local authority, we use research to get a **better understanding of what works and for whom** to reduce health inequalities.

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INSPIRE
INVOLVING SURREY'S PUBLIC IN RESEARCH AND EVIDENCE

Working Together: HDRC Surrey's Strategy for Inclusive Public Involvement in Research

Jan 2025 – Dec 2029



"Working together with Surrey's communities to shape research and address health inequalities."

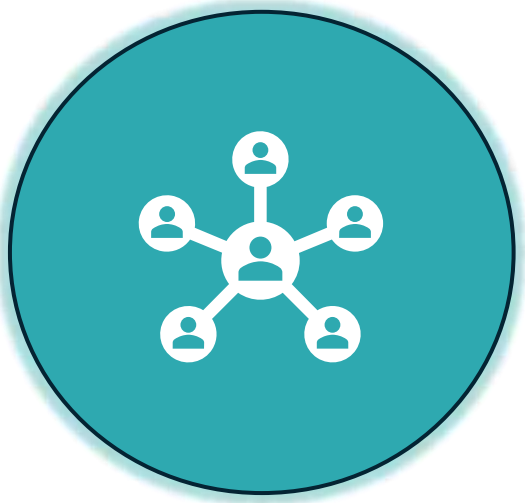
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Our approach



Public Involvement Panels (East and West Surrey)



Public Involvement Network



Peer Research Training



Community Participation and Events

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Surrey County Council

You can get in touch with the Surrey HDRC team via email on:
SurreyHDRC@surreycc.gov.uk