

Air Quality and Health

Developing a strategy for Gloucestershire

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What do we mean by Air Quality?

- Definition of air quality: “Air quality is a measure of the degree to which the surrounding air in a given location is pollution free from any chemical, physical or biological agent that modifies the natural characteristics of the atmosphere”.
- Sources of poor air quality?
 - **Nitrogen Dioxide**
 - **Particulate Matter (PM_{2.5} and PM₁₀)**
 - Carbon Monoxide
 - Carbon Dioxide
 - Sulphur Dioxide
 - O₃

Air Quality and Health

- **Impact from poor air quality:**
 - High burden of disease: nearly 3,000 years of lost life annually (Gloucestershire)
 - 30% of preventable disease linked to poor air quality
 - Strong association with health and social care use (£16bn – healthcare, £2.7bn lost productivity)
 - No ‘safe/recommended’ level - dose response effect
 - Short and long term exposures
 - PM_{2.5} best understood

Inequalities in Air Quality and health

- Most deprived areas bear the heaviest load
- Younger population have higher exposure
- Higher levels of exposure in areas with social care need
- Highest car ownership = lowest exposure

Drivers for action in Gloucestershire

- Growing national interest and developing evidence base
- National strategy/policy, integration into NHS LTP
- Political and Officer interest
- Members' Task Group on Air Quality and Health – what does this mean for Gloucestershire?
- Health and system impact assessment: describing the issue, and informing a way forward
- Recommendations from the Members' Task Group
- The Gloucestershire Air Quality and Health Partnership

Developing a strategy for Gloucestershire: key informants

- Gloucestershire Air Quality and Health System Impact Assessment
- Members' Task group recommendations on air quality and health
- Air quality and health strategy development workshop
- Partnership Group
- Work stream groups

Strategy Vision

For organisations, professionals and the public across Gloucestershire to work together to improve air quality in the county and reduce the impact of air pollution on human health and the environment. To contribute to the vision of Gloucestershire as a prosperous, happy, healthy, and sustainable county.



Gloucestershire
COUNTY COUNCIL

Proud partners of the
Emissions Reduction Pledge 2020



HM Government

Gloucestershire
Climate Change Summit
2019 Gloucestershire
carbon neutral by 2050

Strategy Aims

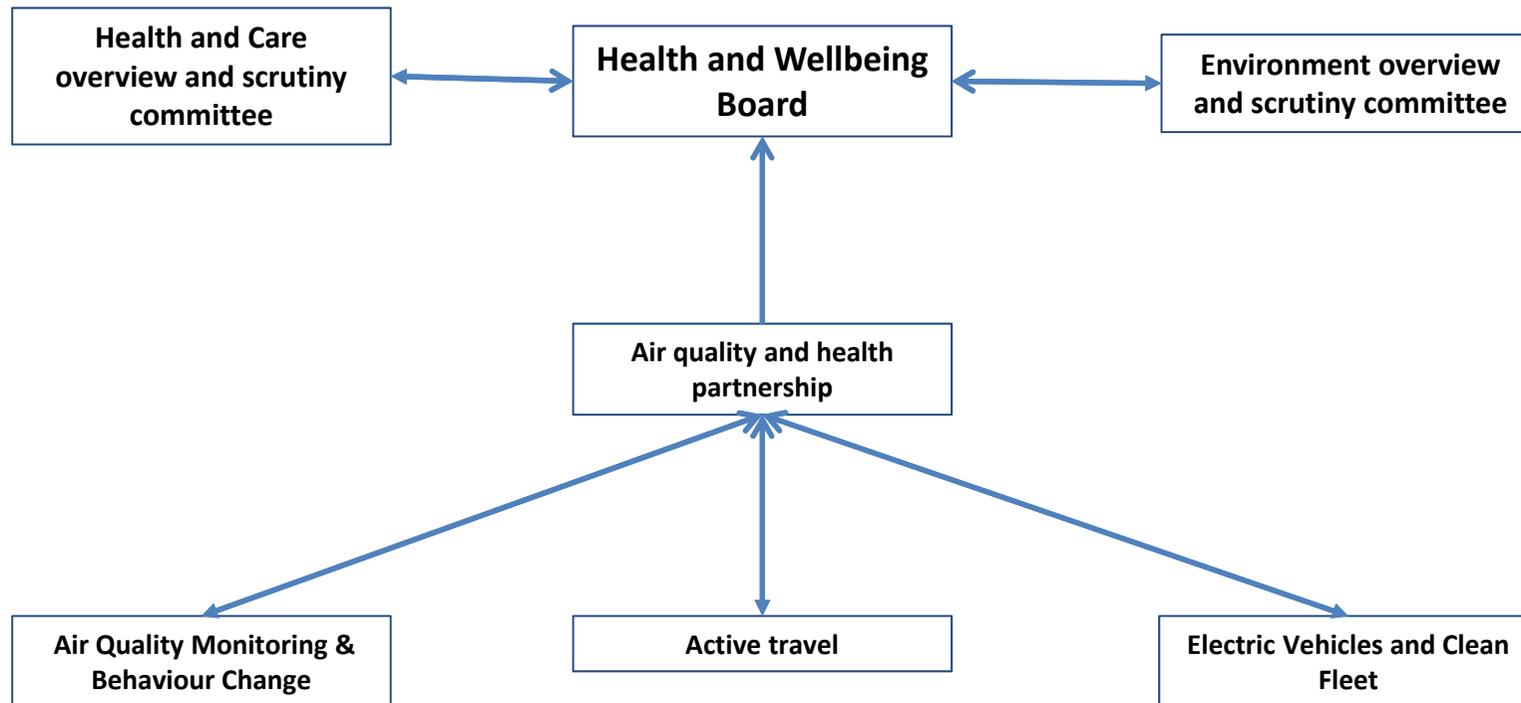
- Bring about a **significant and measurable improvement to air quality** in Gloucestershire through joined-up working to implement cost-effective measures.
- **Reduce the impact of poor air quality on the health** of residents, workers and visitors, and the environment.
- Raise **public awareness** of air quality, its impact on health and personal protection measures in order to promote **sustainable behaviour change**.
- Increase our **understanding of the state of air quality in Gloucestershire** and the impact of measures to improve air quality.
- **Meet and exceed statutory obligations** and national targets on air quality

Key strategic areas for delivery

Six strategic areas for delivery:

- Public engagement
- Air Quality Monitoring and Information
- Active travel
- Policy and planning
- Ultra Low Emission Vehicles (ULEVs)
- Cleaner Fleets and Public Transport

Developing and delivering the strategy: Governance overview



Challenges ahead

- Moving from strategic areas to work plans and interventions
- Prioritising strategic areas
- Identifying resources
- Evaluating progress