

# Climate Change



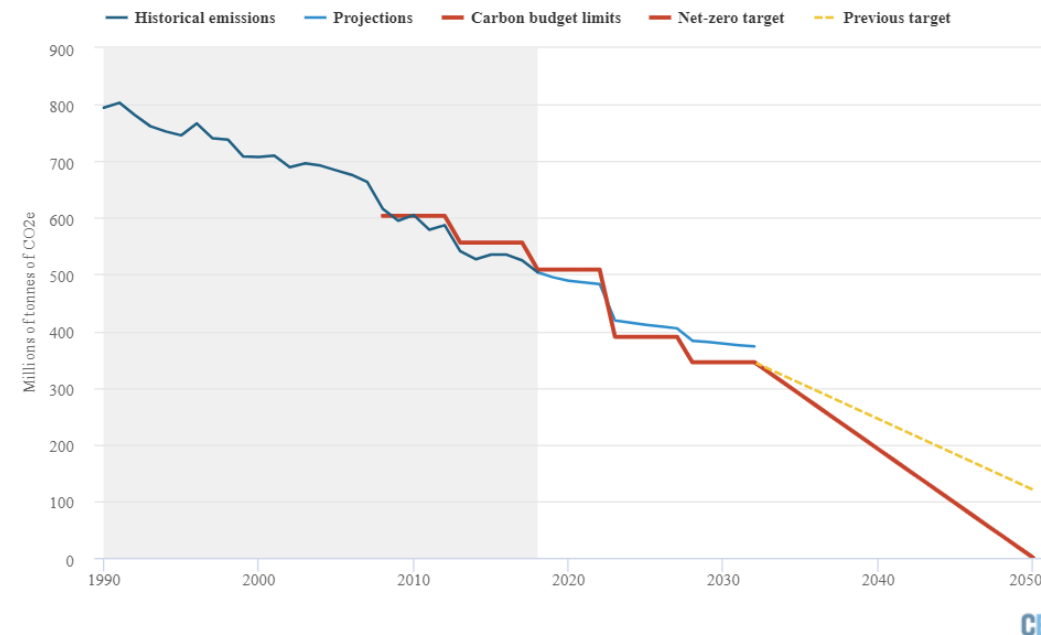
# Key drivers

## Paris Agreement and Climate Change Act 2008

- 2015 Paris Agreement, ratified by 185 parties including the UK, aspires to keep global warming between 1.5C and 2C
- UK Climate Change Act 2008, to reduce greenhouse gas emissions by at least 34% by 2020 and to be net zero by 2050
- Off track to meet the fourth budget which runs from 2023 to 2027

UK emissions cuts must accelerate to hit net-zero by 2050

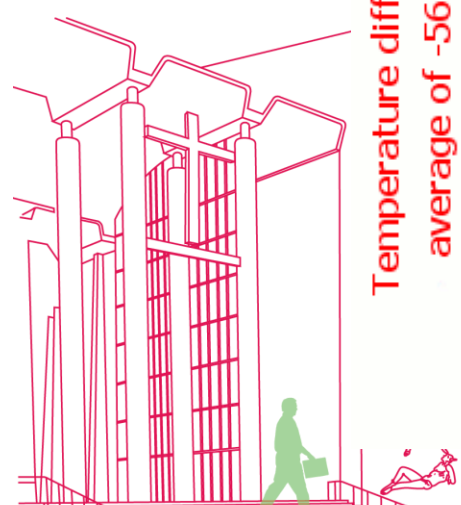
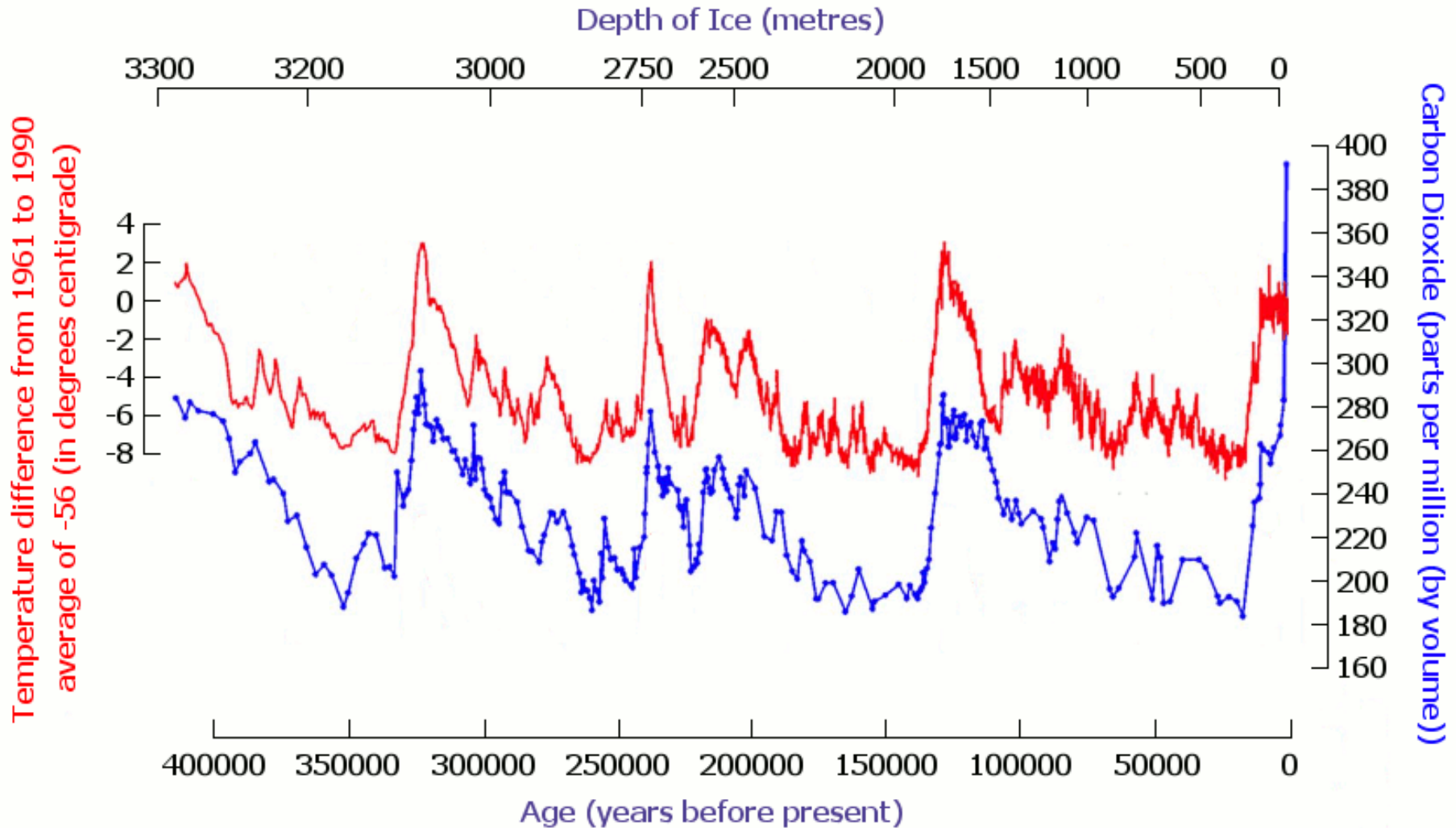
Government projections already show the UK missing its fourth and fifth carbon budgets



# Global temperature record

The Vostok (Antarctica) Ice Core Record.

Carbon Dioxide versus Temperature for the last 420,000 years.



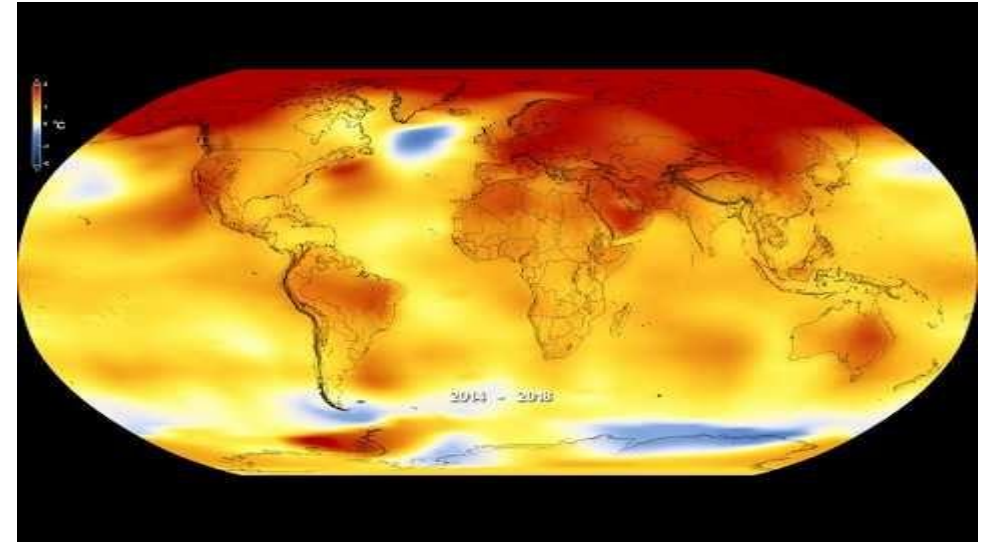
# Are we already seeing the impacts of climate change?

## Globally:

- 2018 was the fourth warmest year on record
- 2019 European heatwave
- 2017 hurricane season

## Nationally:

- The 2018 summer heatwave
- 2018 “Beast from the East”
- Winter storms during 2015/16
- Winter storms during 2013/14



# Climate Change impacts in Coventry

Already experiencing Climate Change impacts



# What does climate change mean for Coventry?

Coventry will not be exempt from the effects of climate change

Summers will become warmer and drier and there will be an increase in heatwaves

- water shortages and potentially 50-80% less water in some rivers in the summer
- Increased excess mortality particularly young and old
- Buildings overheating
- Negative impact on wildlife
- Reduced crop growth
- Damaged infrastructure e.g. roads
- Increased pests



# What does climate change mean for Coventry?

## More extreme weather - extreme cold

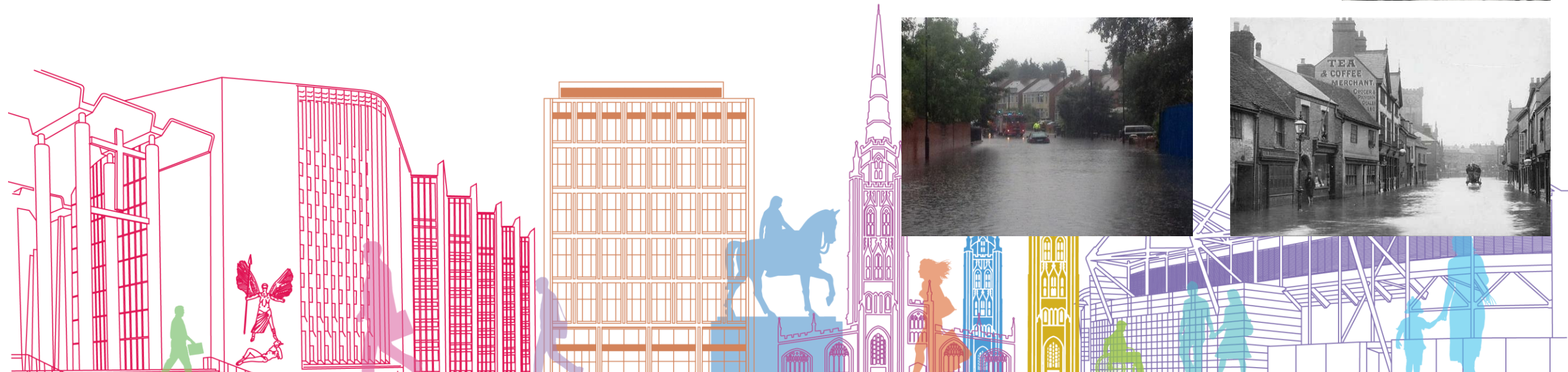
- Cold homes lead to increased fuel poverty
- Increased excess mortality
- Poor physical and mental health
- Economic losses
- Cold homes lead to lower educational attainment
- Negative impact on wildlife



# What does climate change mean for Coventry?

More extreme weather events – flooding

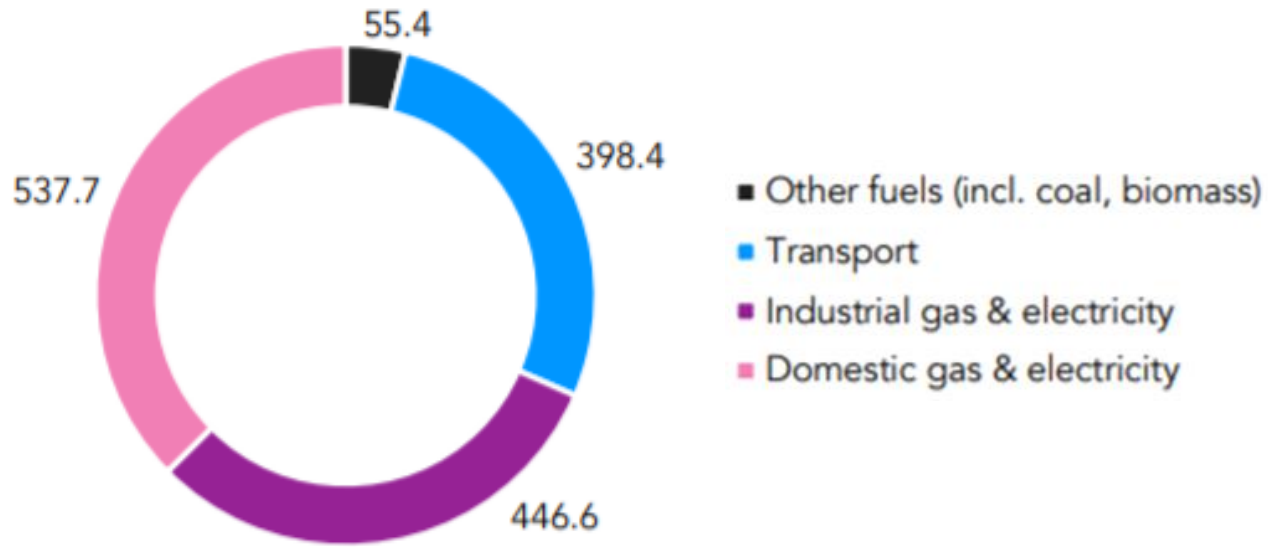
- Flash flooding
- Damaged infrastructure e.g. buildings, roads, homes
- Disruption
- Poor physical and mental health



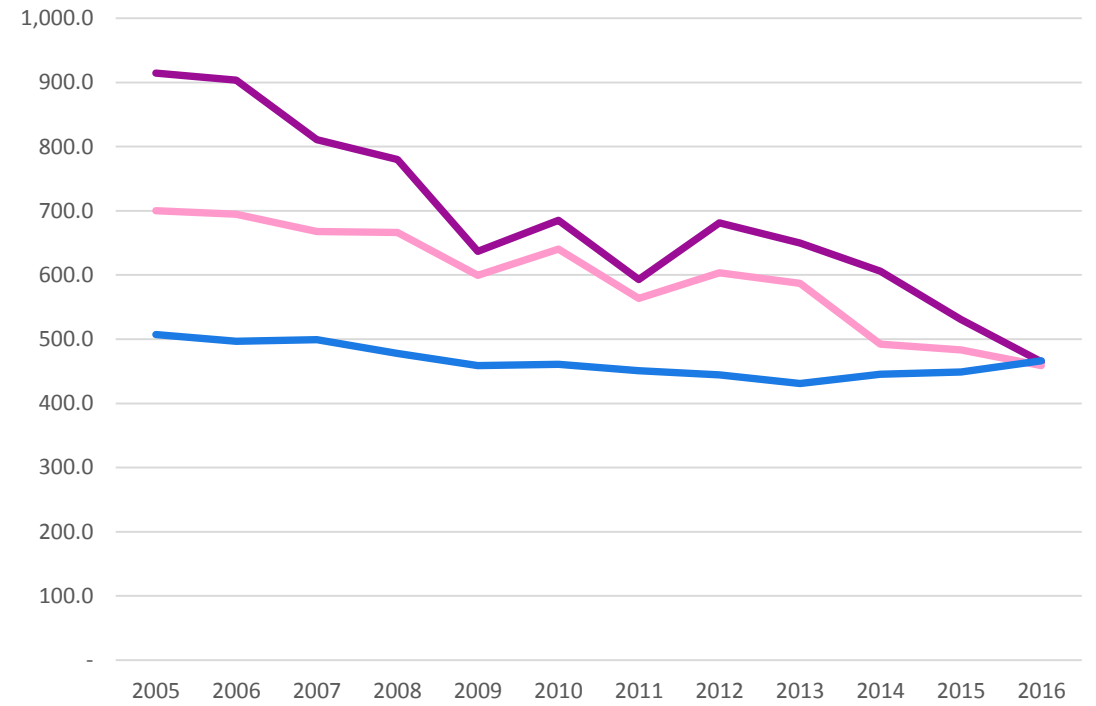


# Coventry's carbon emissions

## Emissions by sector in 2016



## Emissions by sector 2005-2016



— Industry and Commercial Total — Domestic Total  
— Transport Total



# Our commitment to tackling climate change

The Climate Change Strategy published in 2012 set a target to reduce carbon dioxide emissions by 27.5% by 2020

Carbon footprint in 2016  
1.3 million tonnes  
35.45% reduction (2016)

Hit our target in 2014,  
six years early!

In 2019 we are starting work on a new  
Climate Change Strategy for Coventry

## Climate Change Strategy for Coventry

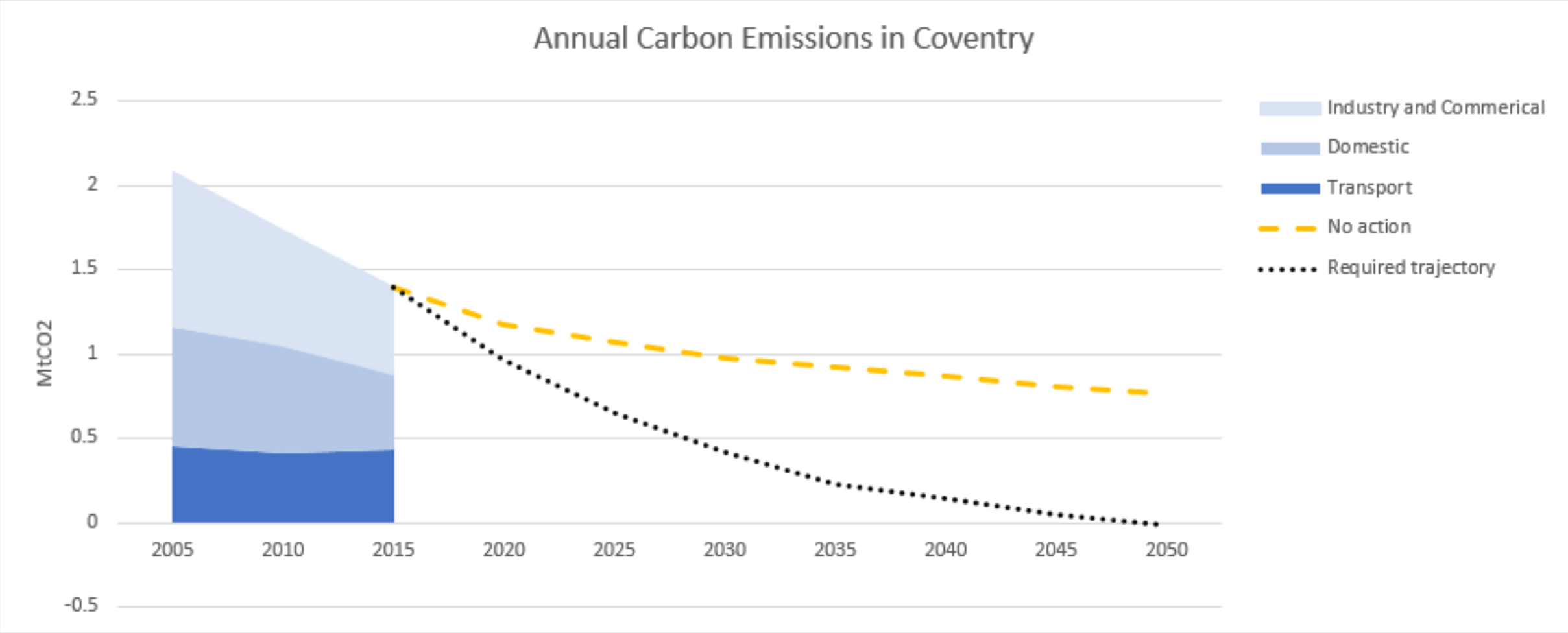


# Key players in Coventry?

- **Universities** - Coventry University and The University of Warwick
- **Schools and Colleges**
- **Utilities** – Severn Trent and E-On
- **Power** – Western Power & National Grid
- **Transport** – National Express & Virgin
- **Automotive** – Jaguar & LEVC
- **Infrastructure** – CSWDP & BIC
- **Housing** – Orbit, Whitefriars & Developers
- **Health** – UHCW, Coventry and Warwickshire Partnership NHS Trust, Public Health
- **Industry** – Amazon, Sainsburys Ansty Park, McDonalds Distribution Centre
- **Community** – Community Groups, Charities, Residents, Businesses
- **Regeneration & Culture** – City of Culture 2021, Historic Coventry & WWT



# Coventry's Carbon Emissions Trajectory



# What is Coventry City Council's role?

- Provide leadership
- Set informed zero carbon targets
- Reducing carbon in our own assets and operations
- Implementing low carbon procurement policies
- Facilitate stakeholder engagement
- Set planning policy and land-use development conditions
- Central resource portal
- Accountable and transparent



# How are we going to tackle climate change?

We have made progress but need to act quickly and at scale

**New strategy will be split into two phases**

- 1) **The new Climate Change Strategy (6 months)**
  1. **Including new internal polices and revised carbon management plan**
- 2) **The Climate Change Action plan (2 years)**

## **Next steps:**

- Data collection – identify data gaps
- Defining targets - carbon budget allocation
- Engaging stakeholders - information sessions and workshops
- Governance structure - internal and city
- Defining vision goals and objectives – high level targets



# Coventry's Climate Change strategy themes

## The strategy will cover the following themes

- **Domestic** - improving thermal efficiency of homes, reducing fuel poverty & encouraging innovation
- **Transport** - improvements to public transport and walking/cycling infrastructure, Low carbon transport - EVs
- **Industry** - improving the efficiency of buildings/processes, better carbon management in schools
- **Environment** - sustainable procurement, waste and recycling, enhanced biodiversity, sustainable food and driving behaviour change
- **Education & Skills** - upskilling, STEM subjects
- **Energy** – Energy Innovation Zone, renewables, feasibility studies for new solutions

Annual Carbon Emissions in Coventry

