Jonathan Ward
Principal Energy Policy Officer

Nottingham's approach to sustainable carbon neutrality

Local Authorities & the Climate Emergency
16th March 2020

@nttmenergycity

Nottingham's operational approach

o Partners
o Commercialism / in-sourcing
o Assets
o Innovation
o Maximising value
o Policy & strategy

Nottingham's key actions

- Low-carbon District Heat Network supplies heat to over 5000 homes and businesses
- Carried out over 40,000 energy efficiency improvements to local homes
- Established a green not-for-profit energy company - Robin Hood Energy
- Intro UK's largest electric bus fleets and the world's largest biogas bus fleet, alongside 20-mile electric tram network
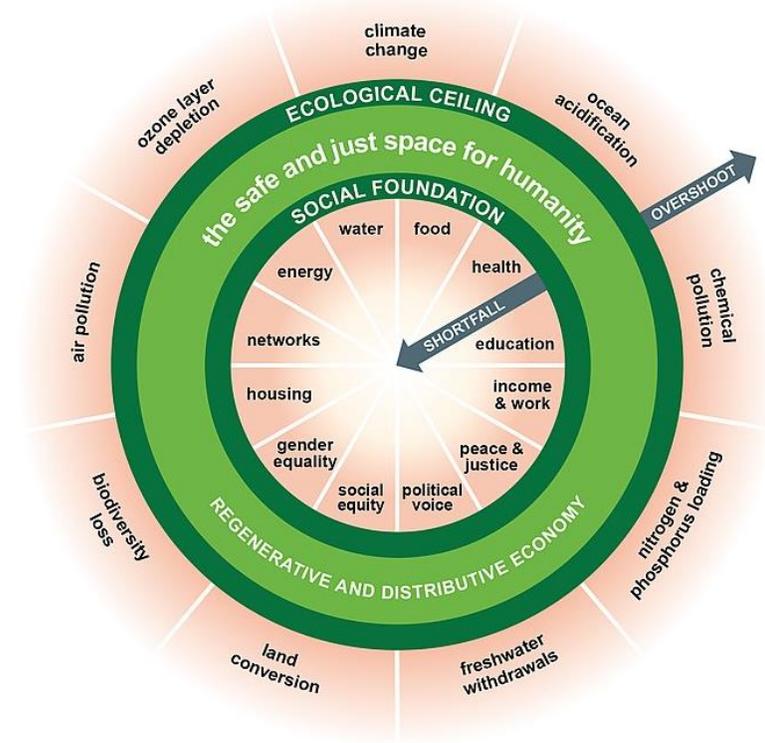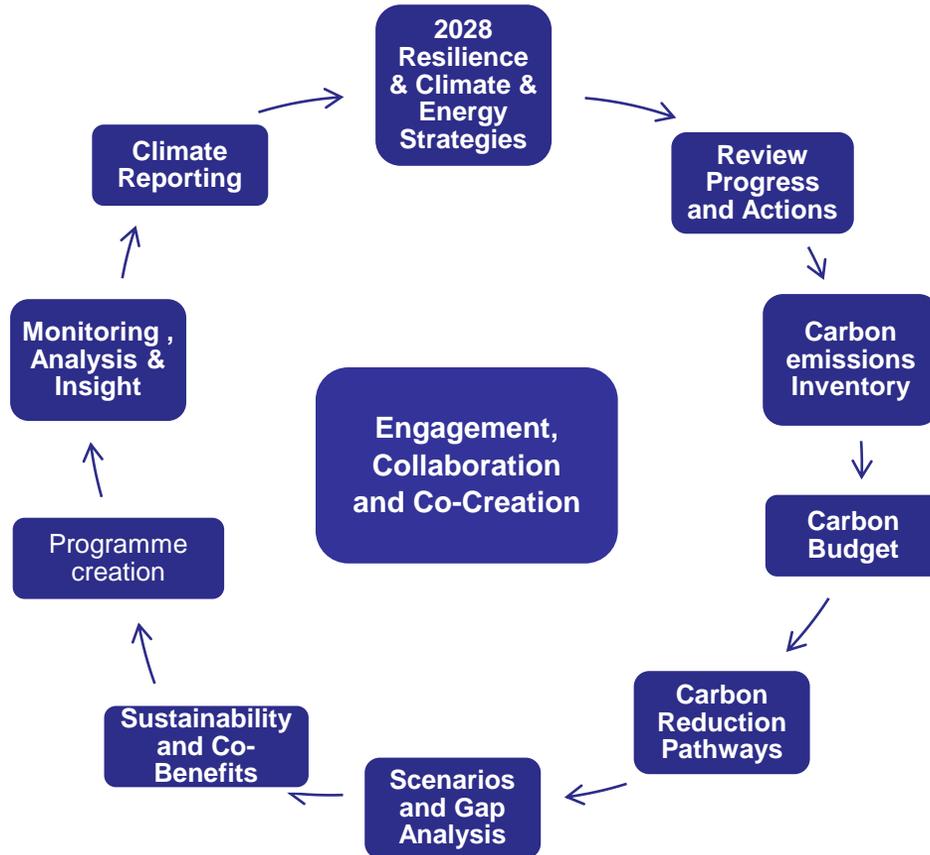- Solar PV rollout

Climate & Ecological Emergency

Nottingham is aiming to become a carbon neutral city by 2028, meeting this target by reducing all carbon dioxide emissions from direct and indirect energy use to net-zero.
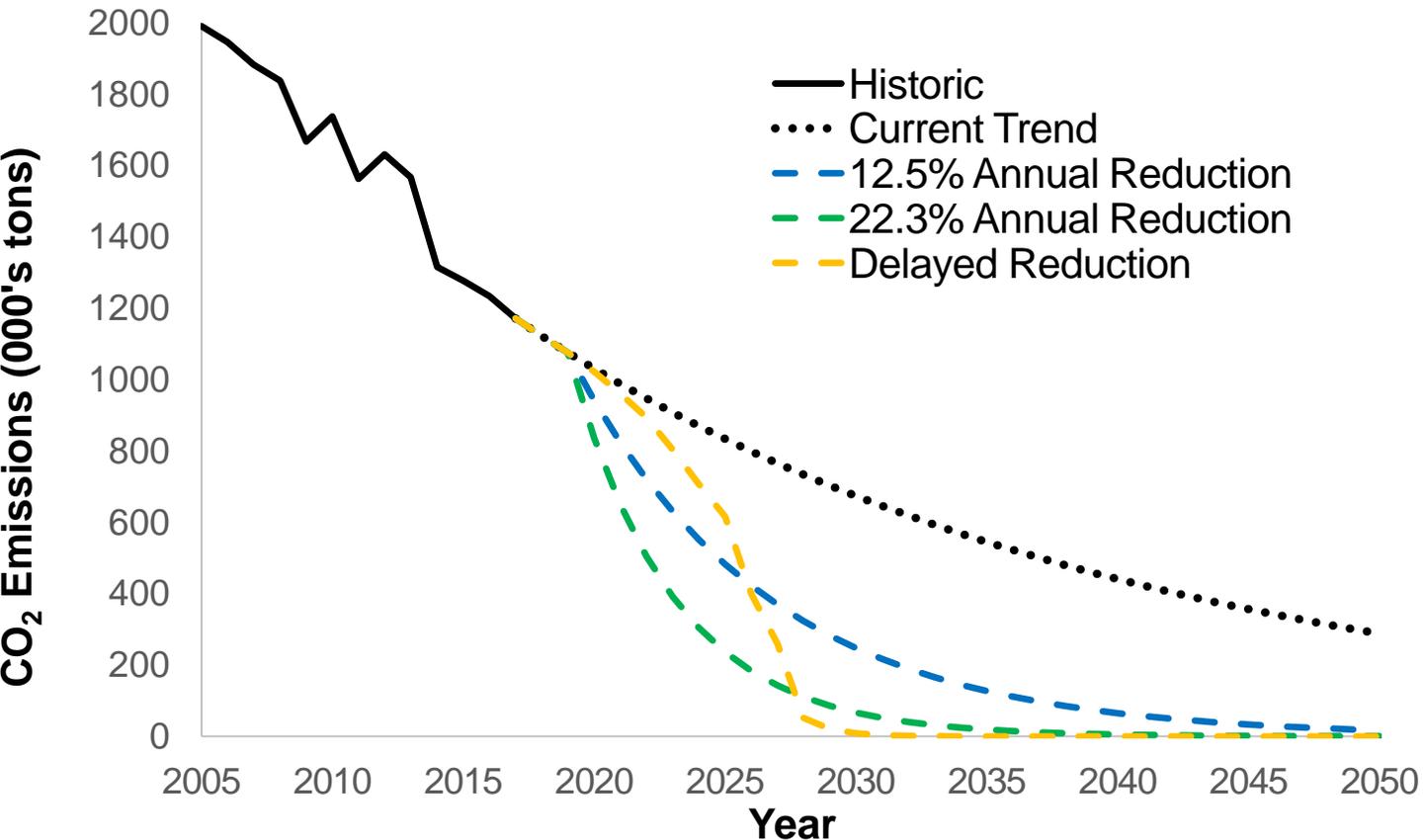
https://www.nottinghamcity.gov.uk/cn2028

Sustainable Carbon Neutrality

2028 Resilience & Climate & Energy Strategies → Review Progress and Actions → Carbon emissions Inventory → Carbon Budget → Carbon Reduction Pathways → Scenarios and Gap Analysis → Sustainability and Co-Benefits → Programme creation → Monitoring, Analysis & Insight → Climate Reporting →

Engagement, Collaboration and Co-Creation

Doughnut economics model https://www.kateraworth.com/doughnut/

Nottingham 2028 Charter

CO₂ Emissions (000's tons) / Year

Legend:
- Historic
- Current Trend
- 12.5% Annual Reduction
- 22.3% Annual Reduction
- Delayed Reduction

The Charter includes Nottingham's:

❏ Climate change impacts

❏ Approach to sustainable carbon neutrality

❏ Historic emissions trends analysis

❏ City-wide carbon footprint analysis

❏ Business as usual projections

❏ Carbon budget analysis

❏ Future emissions pathway analysis

❏ Co-benefits

❏ Partnerships

Nottingham 2028 Action Plan
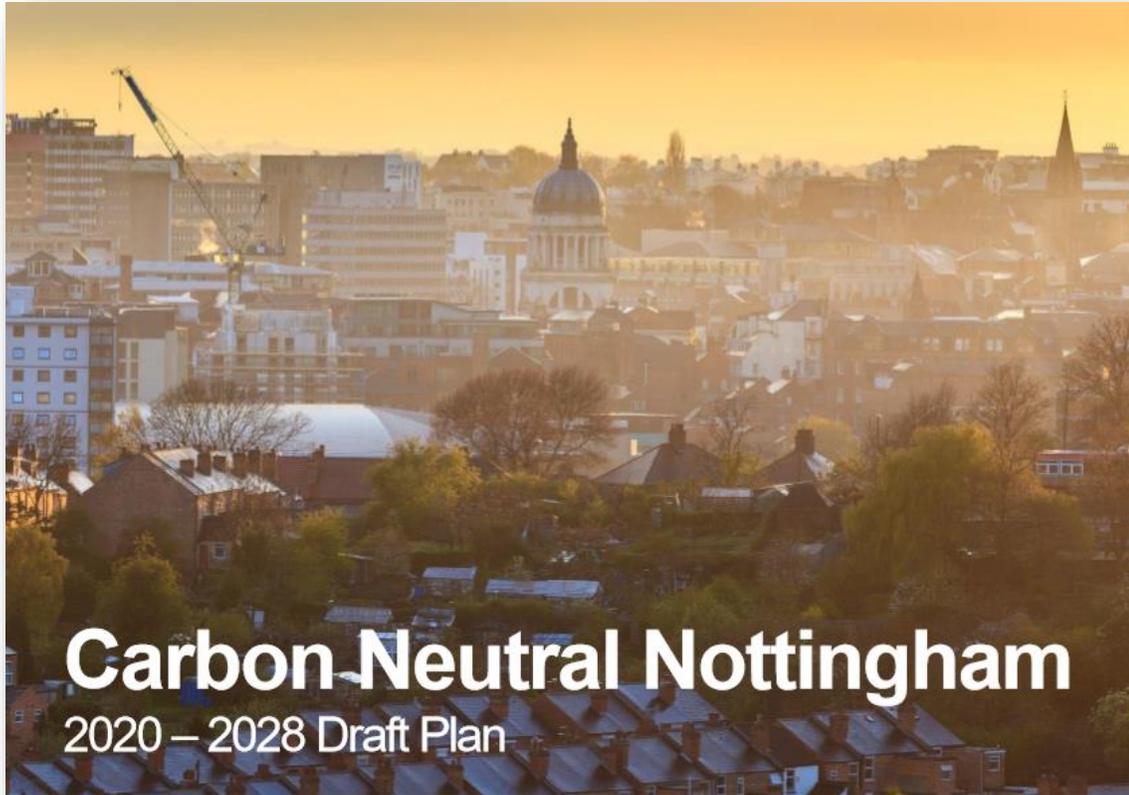
Key Themes:

- Transport
- The Built Environment
- Energy Generation
- Waste and Water
- Consumption
- Carbon Offsetting
- Resilience and Adaptation

Public consultation 20th January – 15th March 2020

Available here: www.nottinghamcity.gov.uk/CN2028

https://www.scattercities.com

Energy Services supports organisations to switch to renewable and low carbon energy solutions

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Local Authorities and the Climate Emergency

Anthesis **SCATTER**

Challenges faced by LAs

Lack of resource/funding/time
Difficulty in data collection and assessment
In the frontline of responding to citizens
Differing levels of influence over processes and operations in the city

Helps alleviate challenges by:

- Providing emissions data and emissions scenario modelling for each LA for free

- Does not require significant data collection and analysis

- Can be used to inform response to climate emergency declarations

- Can help identify high emissions areas for prioritization of efforts
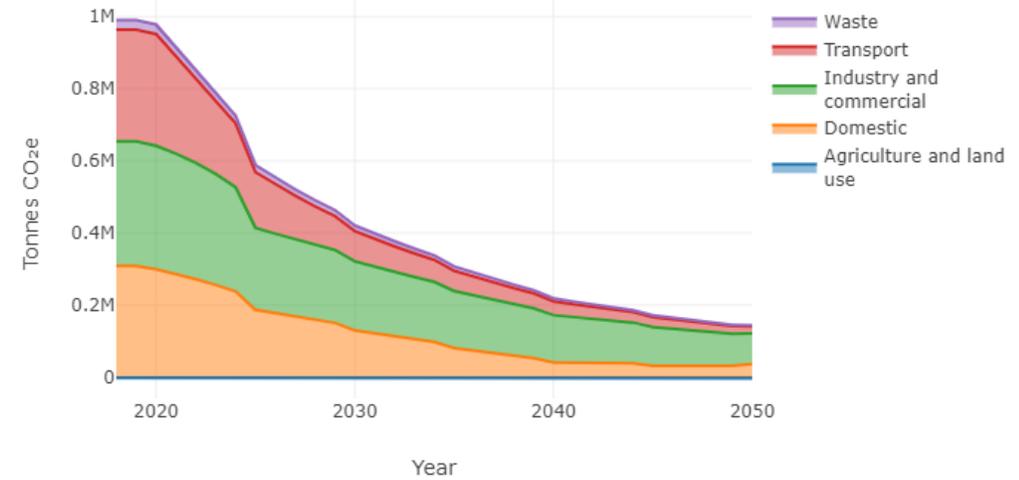
SCATTER functionality

GHG Inventory

Subsector Inventory summary for Nottingham with Scope 1 (Direct)
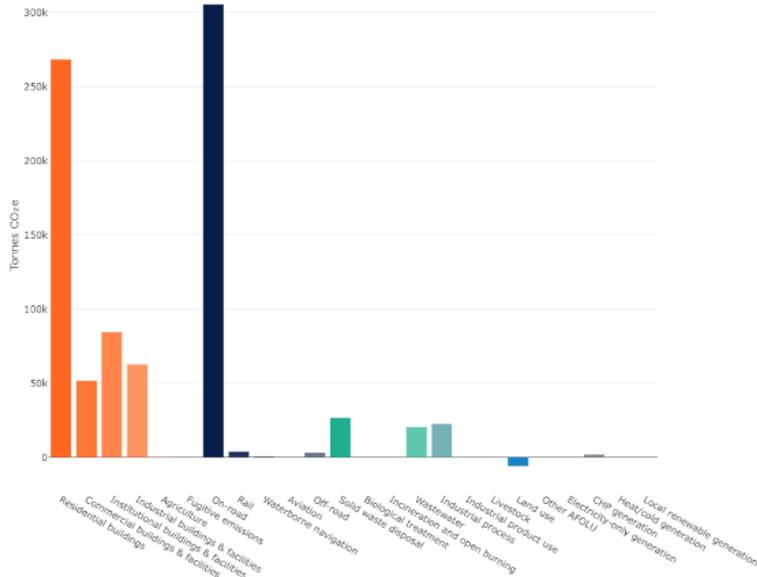
Pathways tool

Emissions Summary by end use, 2020 - 2050 (tCO₂e)

SCATTER Inventory and Reporting

SCATTER Pathways tool

What does Pathways do?

- Show possible trajectories based on measures and ambition

- Allow comparison with your carbon budget

- Understand how far and fast LA area's ambition will take it

- Engage with decision makers and citizens on the scale of the challenge

What does Pathways not do?

- Provide differing target dates

- Show how to get to your area to zero carbon

- Give the specific interventions needed or which should be put in place

- Provide you with exact carbon savings for a particular policy

Co-Benefits Agenda

- Cost Benefits Analysis

- Sustainable approach

- Delivering against key council outcomes

- Quality of life

- New business models

Carbon Reduction

Sustainability Themes

Co-Benefits

Sustainability Objectives
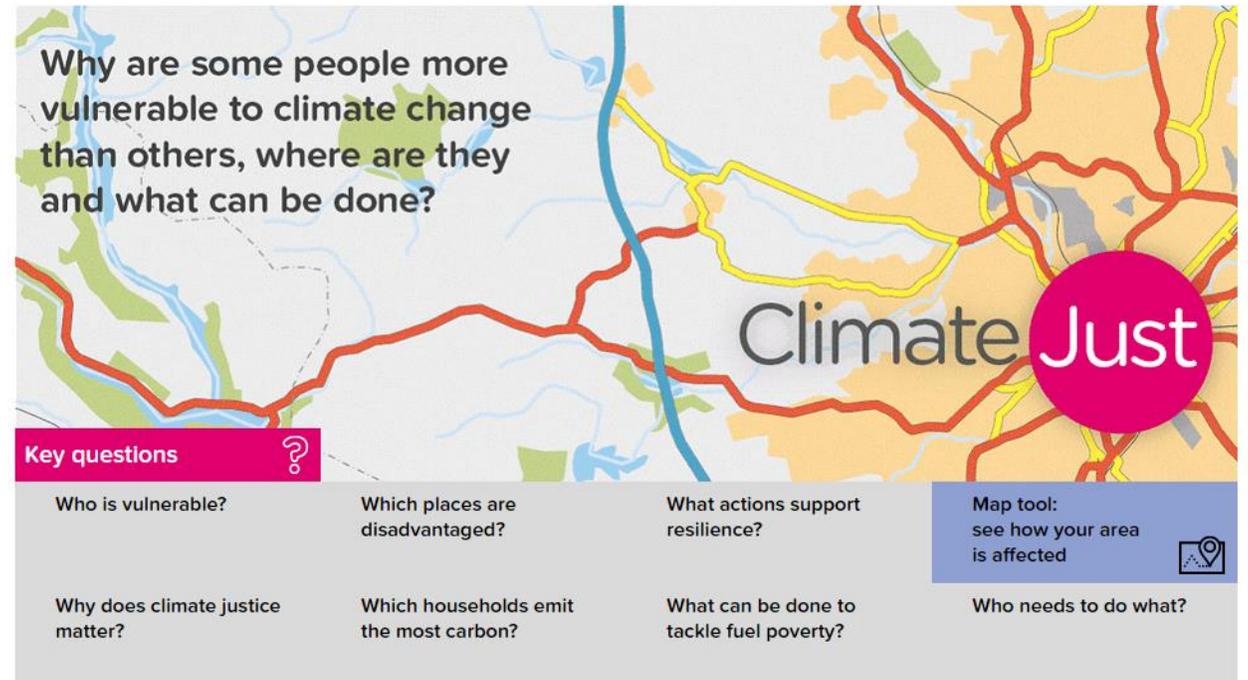
City Goals (SDGs)
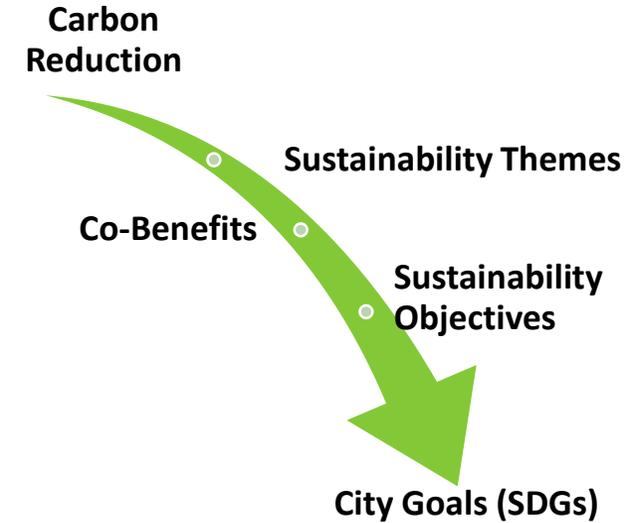
Resilience and Climate Adaptation

The risks of climate change to people depend on their exposure to events and environmental characteristics of where they live (exposure), social and institutional context (ability to adapt) and their personal situation (sensitivity).

https://www.climatejust.org.uk/who-vulnerable

- Business continuity
- Protecting services
- Protecting assets and infrastructure
- Protecting people

Monitoring and Reporting

The city will be disclosing its reporting through international reporting frameworks to be transparent and benefit from additional insight that this can bring

- New internal governance structure
- PIs in Council Plan
- Monitoring in strategies
- Partner data crucial
- Working with national organisations to improve data

Engagement and communications

- Listening to and involving citizens

- Dialogue with campaign groups

- Improving carbon literacy

- Year of Carbon Neutral Thinking

- Citizen panels: consultation to co-creation

- Social acceptability of interventions

- Tailored messages, benefits of action

- Reaching out to SMEs

Benefits of leadership on climate response and clean growth

- Less exposed to risks and costs from a changing climate and the price of carbon
- Competitive advantage from increased self-sufficiency, efficiency and productivity
- Attracting investment & new businesses
- Greater control over the city's future
- Ability to share and export knowledge

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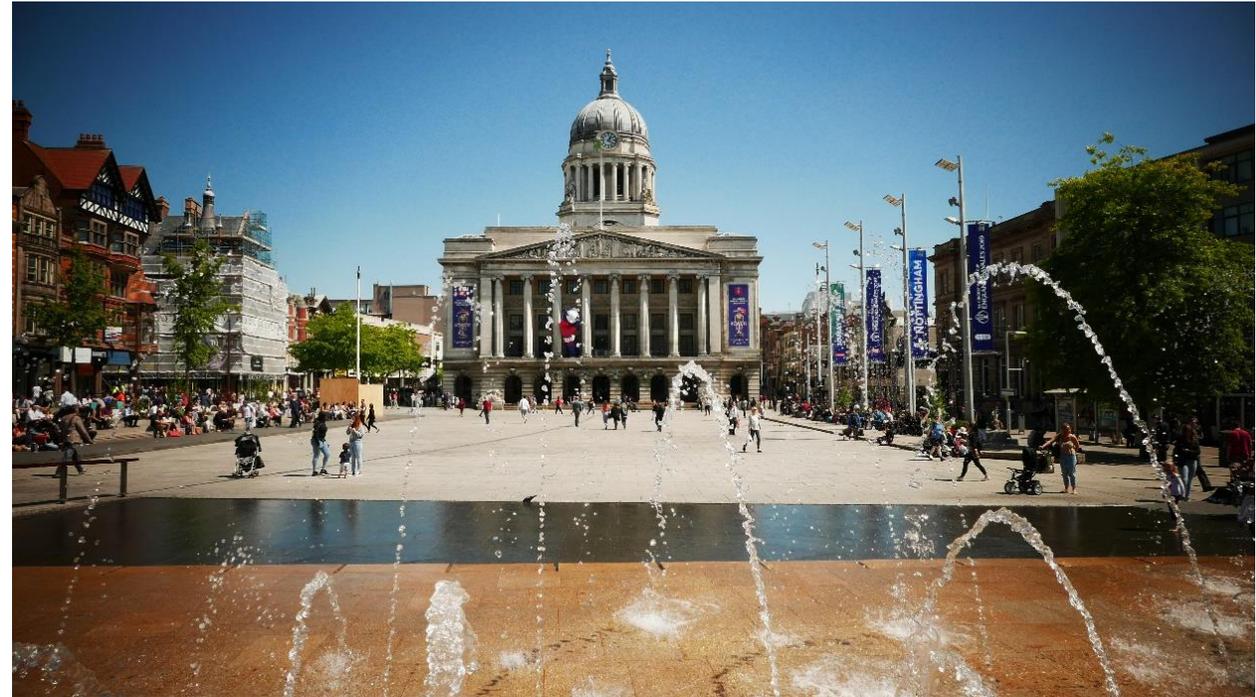
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Nottingham 2028

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