

URBAN ENVIRONMENTAL ISSUES

Pollution and dereliction

★ **Detroit** has issues with dereliction because the city lacks investment so large areas remain derelict.

★ Manchester

- ↳ reducing car use by improving bus services and building cycle paths
- ↳ local government installing SUDS to reduce water pollution e.g. green areas and porous pavements at Salford Quays
- ↳ large-scale redevelopment began in 1996 to combat dereliction, e.g. converting factories and funding for new businesses

URBAN AIR QUALITY

Reducing traffic

- ★ **Mexico City** ban drivers one weekday per week
- ★ **London, Bristol and Birmingham** have council-run, car-sharing schemes

Legislation

- ★ **UK Clean Air Act** (1956) reduced industrial pollution by introducing the use of tall chimneys
- ★ **Road Vehicles Regulations** reduce car exhaust emissions by ensuring cars pass an emission test on the MOT

Alternative fuels

URBAN ISSUES

Economic inequality

- ★ In **Mumbai**, there is a 27 storey home worth \$21 billion, right by a slum which is home to 9 million living off \$2 a day
- ★ **London Living Wage** increased to £9.75 per hour, which should increase income and social mobility in deprived areas
- ★ In **Sao Paulo**, the richest 10% of households earn 40 times more than the poorest 10%

Social segregation

- ★ Hate crime based on race and religion is a problem in **London**, e.g. there were 800 anti-Muslim incidents in 12 months
- ★ Many charities are calling for better English language classes for immigrants
- ★ In **Sao Paulo**, the majority of the wealthiest residents are white immigrants, who gain better access to healthcare and amenities

URBANISATION

- ★ In 2014, over 50% of the world's population lived in towns or cities
- ★ China's urban population increased by 20 million between 1970 and 2015
- ★ More than 2/3 of megacities are in developing nations
- ★ The service sector contributes 78% of the UK's GDP
- ★ Silicon Roundabout is the 3rd largest tech hub in the world

URBAN FORMS

Physical factors

- ★ Topography - Rio
 - ★ Water - Sydney, London, New York
 - ★ Natural resources - Middle Eastern cities
- Human factors
- ★ Amenities and services
 - ★ Regulations e.g. tax - Channel Islands

Fortress developments e.g. **Beverley Hills**

URBAN CHANGE

★ **British government schemes** since 1979

- ↳ Urban development corporations e.g. London Docklands
- ↳ Enterprise Zones established in areas with high unemployment to encourage start-ups
- ↳ City challenge programme - local authorities competed for government funding to regenerate deprived areas

Gentrification

- ★ **Liverpool** - 20 houses sold for £1
- ★ **Notting Hill** - house on Portland road bought for £11,750 in 1968 and now worth over £2 million

URBAN CLIMATE

Urban Heat Island Effect is stronger at night

- ↳ daytime temperatures around 0.6°C warmer than surrounding rural areas, but 3-4°C warmer at night
- ★ 'Airpocalypse' in **Beijing** caused by industry led to schools, nurseries and businesses to shut down for three days due to high photochemical smog levels

SUSTAINABLE URBAN DEVELOPMENT

★ **Copenhagen, Denmark**

- ↳ European Green Capital award in 2014
- Social sustainability
 - ↳ only 2% work more than 40 hours a week
 - ↳ 249 miles of cycle lanes
- Economic sustainability
 - ↳ economic + financial centre of Denmark
 - ↳ low unemployment rates (around 4.1%)
- Environmental sustainability
 - ↳ target to be carbon neutral by 2025
 - ↳ large offshore wind farm (at Hvidegrunden) provides 4% of the city's energy
- Urban governance
 - ↳ high tax rates provide generous welfare system which reduces inequality
 - ↳ high income and gender equality

URBAN WASTE

★ **Statens Island waste management scheme**

- ↳ **Fresh Kills** landfill site was closed in 2001, and a scheme was developed to transform the site into a park, which reduced air pollution and health risks in the area

★ In the late 1970's, **Singapore** started using incineration with energy recovery

- ↳ four incineration plants provide 3% of Singapore's energy
- ↳ in 2015, 60% of waste was recycled and only 2% sent to landfill sites

URBAN DRAINAGE

★ **Cheonggyecheon river restoration project, Seoul (2003)**

- ↳ dismantled elevated freeway and built 22 bridges
- ↳ water pumped from Hanang river
- ↳ reduced water + air pollution and city temperature decreased by 2.5°C
- ↳ 12 million visitors by 2008 and increased use of public transport
- ↳ increased land value by 30-50% within 50m of project
- ↳ 3.5% increase in number of businesses

URBAN
Case Studies