KI : A growing percentage of the world's population lives in urban areas

GCSE Urban Issues and Challenges – Urbanisa	ation and Rio Knowledge Organiser
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Key terms	Definitions						
Mega cities	Urban area with population in excess of 10 million people	Case study : Rio		Urban growth creates opportunities and challenges for cities in LICs/NEEs			
Migration	When people move from one area to another	Location and importance regionally, nationally and internationally		Regionally – large companies, most visited area in s. hemisphere, major commercial & administrative centre Nationally – Capital until 1960, major port, 2 nd most important industrial centre 5% country's GDP, major tourist centre. 5 ports 3 airports Internationally – Olympics in 2016, 2014 soccer world cup, UNESCO world heritage site, cultural capital famous			
Natural increase	Birth rate minus death rate						
Urbanisation	The process by which an increasing percentage of the country's population			internationally for tourists re	e dance & music/ Rio Festival, has Christ the redeemer 1 of the 7 wonders of the world		
Global	comes to live in towns and cities More than 50% of world's population live in urban areas		growth	Natural increase – youthful population and most migrants are young Rural to urban migration. Push factors – low wages, changing climater, poor services, land shortages, degraded land. Pull fact		factors – well	
pattern of urban change	 By 2030 it is expected to be more than 60% By 2050 expected to be more than 70% In 1950 there were 4 megacities 	paid jobs, droan mestyle, night		paid jobs, di ban mestyle, mgne	ier standard of living, mends and family, education, medical care.		
		Opportunities		S	Challenges		
Urban trends worldwide	 Highest rate of urbanisation in LICs due to rural to urban migration and high rates of natural increase (birth rate much higher than death rate) Lower rates in HICs as already urbanised and have aging population Some NEEs in South America following HICs pattern Largest increase in India, China and Nigeria – by 2050 urban areas will have grown by 37% 	Social Health & Education Education- The local government is using education to reduce youth unemployment. Free child care is provided for teenage parents to enable them to return to education. Health- One example of how the authorities have tried to improve health care is the favela of Sante Marta. On a steep hill with a population of 8000, it has few roads and the main means of access is an our crowdod cable care. It a 21m to the nearest hearting. Somedical			Managing Urban Growth Providing clean water, sanitation systems & energy Energy- A power plant has been set up near the university of Rio using methane gas (biogas) from rotting rubbish. It uses 30tonnes/day producing enough electricity for 1000 homes Energy – the who city suffers blackouts frequently due to a shortage of electricity. The growing population & the Olym; were expected to make things worse. Many people living in the poorer parts get electricity by illegally tanging into the main supply which is risk & unsafe. Water supply. A ground 12% of the nonulation		
Emergence of megacities	 Asia – huge population. Massive rural to urban migration. Rates fluctuate China – Pearl River Delta – 120 million people as merging Hong Kong, Shenzhen and Guangzhou Most magazities will be in China and India. 	staff take h managed t has increas education	to the date calle call its 15km to the in health kits into peoples homes and d to treat. As a result infant mortality h sed. Education- The authorities have by: Encouraging locals to volunteer h o pay for free lessons in volleyhall for	etected 20 diseases that they as fallen & life expectancy tried to improve access to help in school; Making money pothall suringing & squach in	didn't have access to running water. Estimated 37% of water supply a round 12% of the didn't have access to running water. Estimated 37% of water lost through leaky pipes, fr. access. Waste –. Most waste from favelas gets dumped and pollutes the water systems diseases like cholera and encourage rats Providing access to services (education & health care) Health Care_ in 2013 only 55% of the city had a local family health clinic. Services for or	raud & illegal which causes	

The World's Megacities Are Set for Major Growth

Population growth of the world's top 15 megacities (millions, 2011-2025)



KI : Urban growth creates opportunities and challenges for cities in LICs and NEEs

Key terms	Definitions
Economic opportunities	Chances for people to improve their standard of living through employment
Pollution	Presence of chemicals, noise, dirt etc which have harmful or poisonous effects on an environment
Sanitation	Measures designed to protect public health e.g. clean water
Social opportunities	Chances for people to improve their quality of life
Squatter settlement	An area of poor quality housing lacking in amenities which develops spontaneously and illegally
Traffic congestion	Occurs when there is too great a quantity of traffic for roads to cope with

Access to Resources

Energy- The electricity supply to Rio has been improved by installing 60km of new power lines, building a new nuclear generator, developing the new simplicio hydro-electric complex

Crime-The police have taken steps to control crime. In 2013 Pacifying Police Units (UPPs) were established to reclaim favelas from drug dealers. Police have taken control of crime dominated Complexo do Alemao and 30 smaller favelas.

Traffic- Improvements have been aimed at reducing congestion & air quality. The metro system under Guanabara Bay to the South zone & Barra da Tijuca has been expanded, new toll roads into the city centre have been made, and making coast roads one way during rush hours to improve traffic flow Economic

How urban areas can be a stimulus for economic development

Favelas -The policy to improve the city's favelas has improved quality of life and the growing economic prosperity has attracted many large companies creating developments, which include the Olympics which have boosted the tourism sector that have created a range of new economic opportunities in the formal economy.



Education - education in Brazil is compulsory for 6-14 year olds. In Rio only half continue education beyond 14. many drop out of school and some get involved in drug trafficking.

Managing Environmental Issues (Waste disposal, air & water pollution, traffic congestion)

Waste-Overseas aid has helped reduce sewage.12 new sewage works have been built since 2004 5km new sewage pipes installed around badly polluted areas

Traffic – It's the most congested city in South America. There is bad congestion because roads can only be built on coastal low lands, tunnels are needed through mountains, cars have increased by 40% in 10 years, crime makes people choose to travel by car.

Waste- Many of the 55 rivers entering Guanabara bay are heavily polluted, coming from runoff through open favela sewers and industrial waste and oil spills from the Petrobas

Unemployment & Crime

Crime - murder, kidnapping, carjacking & armed assault occur regularly. Street crime is still a problem, especially at night. Powerful gangs control drug trafficking in many of the favelas. Unemployment –Unemployment causes large wealth contrasts. Favelas having 20% unemployment, many work in the irregular informal economy, poorly paid & generating no tax.

Self-help schemes – Rocinha

Residents of Rocinha transformed favela into a small city.

Buildings upgraded to brick and tile. Many lived here since favela developed in 1950's. Set up own shops and small industries - the 'informal sector'. Authorities now accepted the existence of favelas and added electricity, paved and lit some streets and added water pipes. Improvements restricted by steep hillside and high density of housing. Favela Bairro Project: City authorities set aside £200 million to improve 60 of the 600 favelas. The plan include - replacing wood buildings and those built on dangerous slopes with larger (5x4m) brick houses, widening streets, laying pavements, laying water pipes and electricity cables, improving sanitation, providing health and sports facilities, using local residents as labour. New town of Barra da Tijuca: Wealthy residents of Rio looked for a safer place to live with more space. Nearest flat land 20KM along coast. 1970 4 lane motorway cut through mountains and on stilts over sea. 1995 New town of Barra had population of 130,000. Process of counter-urbanisation. Self contained city.5 KM of shops, schools hospitals, offices, entertainment. Spacious, luxurious accommodation. 3/4 of accommodation is in high-rise apartments, protected by security guards. Barra already has its own new favelas.

KI : Urban change in cities in the UK leads to a variety of social, economic and environmental opportunities and challenges		GCSE Urban Issues and Challenges – Manchester and urban sustainability Knowledge Organiser		Case Study : Salford Quays	An example of a regeneration scheme		
Population	Overview of the UK population and major cities in the UK ation 260 per km ² on average 5000 per km ² in London and less than 10 per km ² in North of Scotland Most in low lying flat areas especially by coasts and rivers		Case Study : How urban change creates opportunities Shoreditch, London - Cultural Mix (Social) - Ethnic diversity has brought a range of foods, festivals and cultural experience to the city. For example Chinatown and the Curro Mile in Puchome		Reasons why the area needed regeneration	Previously the site of Manchester Docks, at their height the Manchester Docks were the third busiest port in Britain, but due to the rise in companies using large container ships which could not fit up the canal the docks declined swiftly during the 1970s. The docks finally closed in 1982 resulting in the loss of 3,000 jobs.	
ropulation					-		
Cities	Fastest g Sunderla	astest growing are in south east. London the fastest growing sunderland is the only city with a decreasing population	Recreation and Entertainment (Social)	 The Trafford Centre was built on brownfield land in Trafford Park Over £1 billion was spent regenerating Salford Quays to include the Lowry Centre, Imperial War Museum, Lowry Outlet Mall and Media City. 	Main features of the project	 1995 town houses built at Grain Wharf 1996 flats built at Merchants Quay 1999 Metrolink opens linking Salford Quays to the city centre. 2000 the Lowry Arts & Entertainment Centre opens Summer 2001 The Lowry Outlet Mall opens Summer 2003 The Imperial War Museum North opens 2005 NV Buildings flats open 2007 Media City Opens and the BBC and ITV 	
			Employment (Economic)	 Tourism and services offer many jobs, along with business developments and the retail industry. Development of Media City at the quays has brought creative industries including the BBC. 			
Case study : Manchester Urban change in cities in the UK leads to a variety of social, economic and environmental challenges and opportunities		Wales Wales Channel Atlantic Ocean English Channel	Integrated transport systems (Social and economic)	 The Metrolink Tram system has been heralded as a huge success and continues to expand throughout Greater Manchester 		 2010 Media City Metrolink line extended to Media City 2015 Hotel Football opened by Ryan Giggs, Gary Neville and Paul Scholes. 	
		Urban greening (Environmental)	 Parks, woodlands, cemeteries and gardens produce oxygen, decrease flooding, more habitats, healthy recreation and can grow food creating park spaces on previously developed land for example the lawn in Spinningfields and LeftBank down by 	KI : Urban sustainability requires management of resources and transport			
				Key term	Definitions		
Location and importance of city in UK and wider world Hub for transport ne Home to United and		North West England Hub for transport potworks	Case Study :	the River Irwell. How urban change has created challenges	Sustainable urban living	Includes the use of renewable resources, energy efficiency, public transport, accessible resources and services	
		 Home to United and City, has 1.7 million people every year for contribution 	Manchester		Waste recycling	Process of extracting and reusing useful substances found in waste	
		Extensive canal network (36km)	Socio-Economic Challenges				
 19 million use Manchester airport each year Universities, research, tourism, culture, media, communications 		Industrial Decline the 20 th century left much of Manchester's inner city very deprived. Areas of the inner city such as Ancoats and Castlefield were		Case Study : F Freiberg, Germany	Features of sustainable urban living		
Impacts of national and international migration on the growth and character of the city 2.5 million live in Greater Manchester Increased during industrial revolution (textile manufacture Several universities housing over 75,000 students Young population in 20s and 30s moving for work. Also pu up the rate of natural increase Migrants from worldwide Multicultural – current influx from Eastern Europe White British 68%, Asian 14%, Black 8% 		 2.5 million live in Greater Manchester Increased during industrial revolution (textile manufacturers) Several universities housing over 75,000 students Young population in 20s and 30s moving for work. Also pushing up the rate of natural increase Migrants from worldwide Multicultural – current influx from Eastern Europe White British 68%, Asian 14%, Black 8% 	Some inner city areas have been redeveloped – existing housing is cleared and replaced by modern apartments. The new housing is too expensive for the former residents who are forced out of the city an example of this is the regenerated area of Castlefield.		Collecting and recycling water Preventing overuse of water	 Green roof gardens have water harvesting systems which collect rainwater to reuse. Inhabitants are given incentives to use less water. Waste water systems allow rainwater to be retained, reused, or seep back into the ground. Toilets installed that use less water to flush Water meters that remind residents how much water 	
Key terms	Definiti	on	Many children in deprived areas of Manchester leave school without basic			they are using.	
Brownfield site	Land th	at has been used, abandoned and now awaits some new use	areas of the city. An example of this would be Gorton where unemployment		Renewable	 400 solar panel installations in the city (including at the railway station and football stadium). Freiburg's solar valley employs 1000 people Homeowners can sell excess energy to the national grid 	
Dereliction	Abando	ned buildings and wasteland	is 3% higher than W	er than Withington.			
Greenfield site	A plot o	f land that has not yet been subject to any building development	Linhaalthy lifestyles for example drinking smoking and poor diets are more				
Inequalities	s Differences between poverty and wealth as well as in peoples' wellbeing and access to services when different transport systems connect together making journeys smoother and public transport more appealing n fringe Zone of transition between the built up area and the countryside rivation The degree to which an individual or an area is deprived of services, decent housing, adequate income and local employment ening The process of increasing and preserving open space such as public parks and gardens eneration The revival of old parts of the built up area by renewal or redevelopment awl Unplanned growth of urban areas into the surrounding countryside		common in deprived areas. For example life expectancy in Clayton is 10 years lower than in Didsbury. Environmental Challenges		Creating green spaces	 Afforestation – 75% of the deforested trees are re-grown every year 	
Integrated transport systems						 40% of the city is forested, of these 56% are nature conservation areas. 	
Rural urban fringe			As people left inner city areas buildings were left empty. Derelict buildings were targets for graffiti and vandalism. Areas such as Ancoats became run down and crime rates rose . The growth of the city and movement of people to the suburbs means there is pressure to build on greenfield sites which destroys natural habitats for example the expansion of Didsbury in the rural-urban fringe.		How urban transport strategies are used to reduce traffic congestion		
Social deprivation					Curitiba – Integrated bi-articulate buses. 5 main routes. Interlink.20,000 passengers an hour. 1 a minute. 1.5 million passengers a year. Also 2		
Urban greening					 airports. 62 miles cycle lanes Freiburg – 400km cycle paths, 9000 bike parking spaces, 30km tram network connected to 168km bus routes 		
Urban regeneration					 Singapore – restrict entry to city, electronic pricing system, high petrol prices, guota for new cars, car sharing schemes, overhead railway, efficient 		
Urban sprawl					bus network, electronic control f traffic systems		