Dia Ushan growth and being the fit	d shallongo-				
Rio: Urban growth can bring opportunities ar An example of how urban planning is	nd challenges Why has Rio grown?	Urban growth has created social opportunities	Urban growth has created economic	Urban growth has created environmental	
improving the quality of life for the urban	Lots of	and challenges	opportunities:	opportunities and challenges:	
poor: The Favela Bairro Project (Rio)	rural-	Health ☺Only 55% of people had access to a	© Factories that have located in Rio have led to	WATER	
	The Favela Bairro Project is a government urban		people having a job and better wages. ©3.5 million people in Rio work in the informal	Suanabara Bay is polluted with 200 million	
of life in the favelas. It ran between 1995-	plan to improve and upgrade the quality migration of life in the favelas. It ran between 1995-		economy where there is not regulation and people	tonnes of raw sewage a day ©5km of new pipes have been installed and 12	
2008 <u>.</u>	 Lots of natural 	☺Growth of squatter settlements spread diseases e.g. cholera.	do not pay tax	new sewage works have been opened	
It did the following:	It did the following:		©The government have funded the 'School's	WASTE	
©Helped 253,000 people in 73 favelas	increase	nurses can treat up to 20 diseases have be	Today' programme to give people basic training so	Swaste in the river in slums spreads diseases	
©\$1 billion project to improve	The importance of Rio	distributed Education	they do not have to work in the informal economy How was a solution of the second se	like cholera. The steep slopes in the favelas mean it is hard for rubbish lorries to get in and	
infrastructure and public services like schools	nationally and	© Only 50% of children past the age of 14	Many were involved in gangs and drug trafficking,	collect rubbish	
©There are new clubs for children e.g.	internationally: National:	go to school. Most get taken into drug	including children	©Power plant at the University of Rio turns 30	
Samba to keep them out of gangs	Heavy in resources such as	trafficking	©UPP started in 2013 to reduce crime in slums e.g	tonnes of rubbish a day into methane gas	
©Police Pacifying Units (UPP) to reduce	oil and gold which provides	©Grants are given to schools and things like volleyball are included to encourage	Rochina	which powers 1000 homes. AIR	
crime	jobs for locals	pupils into schools. Rochina has its own		Solution (1997) Solution (1997	
©Favela Bairro Project is a site and service scheme. This is where legal land has been	Own finance district for well paid jobs	private university.		traffic which creates smog	
given to the locals with basic facilities.	International:	Water		©Reducing traffic across the city with metros	
©90% of homes are now built out of brick	Rio exports the oil and gold	②12% of people have no access to running water and 37% of water is lost		and making regulations for factories TRAFFIC	
rather than wood which makes them	globally to make lots of	through leaky pipes		©40% increase in the use of cars as people do	
warmer	money 2 million tourists visit the	©By 2014, 95% now have access to		not feel safe in the city	
©Improvements in sanitation and water facilities	city each year	running water and there are 7 new		©One way roads during rush hour, toll roads	
©Cable car has been added to Ipanema so	, ,	treatment plants with 300m of new pipes to help		introduced and the Metro has been expanded in the South Zone	
people can move around easily		Energy		in the south zone	
©800 new homes have been built		©Frequent blackouts and illegal electricity			
©£10 million has been spent on a new		supplies in Rochina in slums e.g as people			
sewer.		move there as they think it will be better. ©60km of new cables and Simplicio HEP			
©Day care centre for people with drug addictions		Plant creates 30% more energy for the city			
An example of an urban regeneration pr	oject in London: The 2012	London - a case study of a main situate the till	Urban change has led to opportunities in London:	Environmental challenges caused by urban growth	
<u>Olympics</u>		London – a case study of a major city in the UK UPLAND REGIONS = SCOTLAND = SPARSE AS	©Lots of festivals to celebrate cultural diversity and recreational entertainment e.g. Notting Hill	<u>in London:</u>	
WHY WAS IT NEEDED?		FEW NATURAL RESOURCES	© Example of social and cultural + employment =	Despite regeneration urban areas in the	
✓ -The Stratford needed regenerat	tion because:	LONDON = NATIONAL CAPITAL	Shoreditch – high tech companies have located on	inner city e.g. the London Docklands,	
 There was lots of unused industrial land and facilities that had 		LOWLAND AREAS = NOTTINGHAM = EASY TO BUILD ON	Silicon Roundabout which are high paid jobs. The	house prices in London are growing	
been contaminated by lots of chemicals.		BUILD ON *Lots of people live in London and Nottingham	area has been regenerated and old factories turned	faster than anywhere else. This puts	
	 Stratford was one of the most deprived areas in London e.g. the success in same is C28 000 per user semanard to C28 000 		into new pubs, there is street art and housing for	pressure on the RURAL URBAN FRINGE	
the average in come is £28,000 per year compared to £38,000 for the rest of London.		e.g. small towns in Scotland	£330/week © Integrated transport systems improving = Cross	and population pressure too. This = URBAN SPRAWL.	
 ✓ -The River Lea and canals were a 	already there for them to use.		Rail is being developed to bring an extra 200 million	This puts pressure on wildlife and	
 ✓ -To leave a legacy of facilities for 	,	The importance of London as city in the UK and	journeys, less Co2, 1.5 million within a 45min	ecosystems can be damaged/destroyed.	
		in the wider world:	journey and properties along the network will rise	However, people get better facilities e.g.	
FEATURES OF THE PROJECT:		It is the UK's main transport hub	by 25%	new shopping centres on the RUF.	
 *West Ham now play football in the Olympic Park *Advesting particle used for swimming losses by lossel primary 		• It is home to the BBC	© Urban greening (creating more green space in	Houses are starting to spread outside of London into aroas a g luton. This is	
 *Aquatics centre used for swimming lessons by local primary schools. 		 There are lots of job available here 	cities) = 47% of land in London is green space. There are 8.1 million trees, 13,000 species live	London into areas e.g. Luton. This is creating commuter villages	
 ✓ *25,000 employed there in high 	rise offices.	in government and financeGreat Ormond Street Hospital is	here, 30,000 allotments and room to exercise in the		
 ✓ "25,000 employed there in high rise offices. ✓ *Green space in the Queen Elizabeth Olympic Park for walking 		Great Ormond Street Hospital is located here	parks.	Challenges in commuter villages:	
	 ✓ *Here East Media Centre – 5000 jobs 			A commuter village are places in the rural/urban	
 ✓ *Westfield Shopping Centre – 10 ✓ *Startford Train Station improve 	•	 Lots of companies, both British and foreign, have their headquarters. Los of legal work is done here e.g. at 	Social and economic challenges caused by urban	fringe where the majority of the population leaves	
	 * Stratford Train Station improved for people * East Village (where the athletes lived) now has affordable 		growth in London Key terms:	the town each day to work in the city e.g. Luton to London.	
 * East Village (where the athletes housing for a mix of 2800 homes 	,	the Old Bailey	Social deprivation = The degree to which a	LUNUUII.	
		Lots of tourists visit the city.	person or a community lacks the things that	This causes problems:	
OVERALL JUDGEMENT:			are essential for a decent life, including work,	-New houses change the old character of the towns	
 Over 500 people were asked to I 		Impacts of national and international migration	money housing and services	-Demand for houses increases house prices for the	
CLAYS LANE for them to be demo	•	on the growth and character of the city	Poverty = the state of being extremely poor	locals	
Olympic Stadium → led to lots o Cost £9.3 billion in money	τ protests	Today, London's population comes	Life expectancy = The average age that a person is expected to live.	-Businesses in commuter settlements may suffer as people go back to the city to work.	
 Cost £9.3 billion in money The cost of living for poor people 	e in Newham/Stratford has	from every part of the world. The	Inequalities = The difference between	-Large numbers of commuters can increase pollution	
increased due to it being a popu		largest numbers are from countries like Nigeria and Jamaica (each were	poverty and wealth as well as peoples		
✓ Better transport connections e.g.	. Stratford station	once part of the British Empire).	'wellbeing and access to thing like jobs and		
✓ Newham and Stratford have bee		Since 2007, more migrants have	education	*To cope with the huge amount of urban sprawl in	
 The contaminated land has now 	been cleaned up	come from Eastern Europe.	Social and economic challenges in London caused	London, there has been a move to building on greenfield and brownfield sites*	
		Positives:	Social and economic challenges in London caused by urban change:	greenfield and brownfield sites*	
		To see attractions like St Paul's cathedral Lots of different foods	High urban deprivation e.g. Life	Environmental challenges caused by urban growth	
		Cultural diversity	expectancy in Chelsea is 90, whereas it	in London: Waste management	
		Negatives:	is 78 in Newham (this also shows		
		Racism	healthcare)	LANDFILL SITES: 24% of London's waste goes into landfill sites. This	
		Low paid jobs due to limited speaking of English	 House prices have increased alongside with greater house shortages 	might be good because it is out of site, but it	
		Language barriers	(inequalities in housing)	produces methane that contributes to greenhouse	
			 37% of residents are not of white 	gases in the atmosphere.	
			British origin which can lead to	RECYCLING:	
			tensions. This can cause racial issues,	61% of London's waste is recycled into glass, paper	
			language barriers and often when	and food waste. The government has a target of zero waste going into landfill by 2030.	
			migrants first come to the city, they live in poor quality housing and have	INCINERATION:	
			low paid jobs (urban	London sometimes burns its waste in order to	
			deprivation/inequalities in housing)	generate electricity.	
			 Large differences in wealth in the city; 		
			Newham (poor – only 7% of people		
			earn more than £60,000 per year) vs		
			Chelsea (where over 26% earn over £60,000 a year (INEQUALITIES in		
			employment)		
		1	compositione j		

	 Inequalities in education – in Cheisea
	82% of children leave with 5 A*-C
	GCSE'S whereas in Newham only 60%
	do.
	 9,400 deaths a year due to air
	pollution, mainly nitrous oxide, and
	30% increase in the amount of children
	diagnosed with asthma. This is mainly
	in people from areas such as Newham
	(inequalities in health)

		in a NEE helps to reduc				<u>The (</u> 1)	contexts of Nigeria:	Nigeria's Industrial struct	ture and economy:
 An example of how the growth of tourism in a NEE helps to reduce the development gap: Jamaica Positives: 24% of Jamaica's GDP comes from tourism. 20,000 jobs from tourism have meant more money being spent in shops and other businesses. These jobs are better paid Government has invested in infrastructure to support tourism – multiplier effect New sewage treatment plants have reduced pollution. Many local people in key tourist sites of Montego Bay have witnessed improvements in their quality of life. The environment has benefited by landscaping and the designation of nature park e.g. Negril Marine National Park has an eco-tourism resort. Negatives Tourists do not always spend much money outside their resorts. Tourism jobs are seasonal Infrastructure improvements are focused around tourist resorts and sites. Many people in Jamaica still live in poor quality housing and lack basic services such as healthcare whereas Montego Bay is wealthy which causes tensions Many of the hotels are owned by foreign companies e.g. TUI and money goes back aboard (economic leakage) Lots of damaging effects to the environment e.g. footpath erosion and Co2 from buses and car Overall tourism in Jamaica for the all-year tropical climate. In 2014 tourism contributed 24% of Jamaica's gross domestic product. This is expected to rise to over 30% by 2024. Tourism income exceeds \$2 billion each year. Tourism is the main source of employment – over 200,000 local people are employed in the sector. 		ent in m – gnation ourism orts. sorts and Hack vealthy H and prosion te. Juct. This	Nigeria: A NEE experiencing rapid economic development leading to significant social, environment and cultural change Nigeria is important regionally and globally: Nigeria is the world's 21st largest economy - GLOBAL Nigeria supplies 2.7% of the world's oil (the 12th biggest producer) - GLOBAL The economy is an economic hub for finance, telecommunications and the media – GLOBAL Nigeria is the 5 th largest contributor to the UN peacekeeping missions around the world – GLOBAL Nigeria has the 5 th largest contributor to the UN peacekeeping missions around the world – GLOBAL Nigeria has the third largest manufacturing sector – REGIONAL IMPORTANCE Nigeria has 70% of people working in agriculture, mainly subsistence farmers – REGIONAL Nigeria has 70% of people working in agriculture, mainly subsistence farmers – REGIONAL Nigeria's relationships with the wider world: IN AFRICA = AFRICAN UNION This provided troops and allows economic planning and peacekeeping in Africa WIDER WORLD = UNITED NATIONS S th largest number of peacekeeping troops come from Nigeria Trades with mainly China, India and the USA			 POLITICAL CONTEXT: Nigeria became independent from the UK in 1960. It is relatively stable. However, there is still conflict in Nigeria. Boko Harm, an extremist organisation, wants to abolish democracy and set up its own government. This conflict has seen 17,000 people be killed since 2002. Boko Haram have said to have risen due to the fact that the extremists are able to exploit the growing gap between rich cities and poor rural areas within Nigeria. ENVIRONMENTAL CONTEXT: The further north of the equator in Nigeria, the climate becomes drier. This means the biome is a savanna grass land. The south of Nigeria has tropical rainforests SOCIAL CONTEXT: The ris a mix of religions. The average life expectancy is 52. The infant mortality rate is 73 babies per 1000. CULTURAL CONTEXT: Nigerian music is enjoyed across the continent. Nigerian cinema, also known as Nollywood, is the second largest film industry in the world They well known writer e.g. Chinua 	 Nigeria's Industrial structure and economy: It was based on agriculture but the economy is now manufacturing and services. How Nigeria's manufacturing industry can shape the economy and stimulate economic development: Regular paid work gives people more secure income and provides an even larger home market for purchasing products such as cars, clothes and electrical appliances Manufacturing industries stimulate economic growth through close links with each other, for example, companies supplying parts for making cars As industry grows, more people are employed and the country earns more through people paying tax The industrial sector attracts foreign investment which stimulates further economic growth Oil processing creates chemical by products. This can lead to a huge range of chemical industries e.g. soap and plastics. The standard of living for people increases as they get better products made for them e.g. cement for building over wood Producing manufactured goods in your own country lowers imports so good are cheaper for people to buy from Nigeria The expansion of Nigerian companies increases Nigeria's influence on the continent 		
Some industries dispose of chemical waste onto nearby land and pollute the groundwater.		geria: Earming Commercial farming has led to land degradation. There is water pollution due to chemicals, soil erosion and the silting of river channels. Desertification (dry land) is a problem in Nigeria because people are building	Mining Tin mining has led to s erosion. Local wate supplies w also pollute with toxic chemicals.	soil cause acid rain. Some oil developments have led to violent conflicts between local people. In 2008/2009, Shell spilt 11 million gallons of oil in the Bodo delta. Lots of	Deforestation Deforestation for building settlements and roads has destroyed many habitats and led to increased co2 emissions. 70-80% of Nigeria's forests have been destroyed through logging,	Adva ✓ ✓ ✓ ✓ ✓ ✓ ✓	Intages of Shell in Nigeria 250,000 are employed as a result of the extraction of oil with 65,000 being directly employed by Shell 91% of all contracts are with Nigeria which means money stays in the country The NNPC has been established which means profits stay in Nigeria The government benefits from export taxes, providing money that can be spent on improving education, healthcare and services. Local people's education and skills can be improved by the company TNCs can invest in big projects like Dams Products are cheaper for people in MEDCs Local roads and airports can be improved (infrastructure)	fund developmental proj loans. This helps to redu oil exports. Aid from the USA helps t people against HIV and A The NGO "Nets for Life" I malaria prevention and c many households. Negatives The government may div purposes e.g. claims it ha Corruption by the govern mean that aid does not g Donors may have an influ	NDS provides education on listributes mosquito nets ert money away for other as gone to Nigeria's navy ament and individuals can
groundwater. In Kano, factories pour harmful pollutants directly into open drains and water channels. They are harmful to people and damage ecosystems downstream.	Squatter settlements are common in most cities. Traffic congestion is a major problem in most Nigerian cities and had led to high levels of exhaust emissions.	dams and irrigation schemes.		fishermen lost their livelihoods. In 2015, Shell had to pay £55 million to the people of Bodo. The money went to build clinics and schools. Shell has also agreed to clean up the swamping grounds.	urban expansion, roads and industrial development Many species have disappeared due to deforestation e.g. giraffes and 500 species of cheetahs.	Tank it is r that	(Infrastructure) Money paid to workers in LEDCs goes into the local economy (multiplier effect) dvantages of Shell in Nigeria ers transport oil to Europe and the USA where efined into petroleum products. This means profits go abroad rather than benefiting the country. Shell also pays low wages. Boko Haram steel 400,000 barrels a day 75% of people in the delta have no access to safe drinking water The swamp land of Bonga oilfields in dangerous to work on 9 million barrels have been split in 5 year This damage the agriculture and water supplies in the area Oil flares and toxic fumes have increased air pollution. Oil flares were made illegal in 1984	the quality of life of the p Reliable, better-paid in manufacturing industries or services e.g. health care. Higher disposable income to spend on things like school. Better access to safe water and sanitation Improvements to infrastructure e.g. roads Reliable electricity supplies Better quality healthcare and better-equipped	Not all people have benefitted and many are still poor. There is unequal access to safe water, sanitation and electricity. Parts of the North are at risk of desertification and crop failure. Boko Haram are kidnapping people and this has put off investment in certain areas. There is a large difference between
							but they still continue to happen Few of the managers are local people Locals are paid low wages They can cause air pollution Poor working conditions and long hours Most profits go abroad (leakage) TNCs might pull out with little warning There are less laws in poor countries so TNCs can get away with more things	hospitals. Nigeria was rated in 2000 as a least developed nation, but by 2011 it had the highest average HDI improvement in the world.	educated and uneducated people. 9000 migrants that crossed to Europe in 2014 were from Nigeria as they wanted to escape poverty and earn enough money to send back to their families in Nigeria.

An example of how a modern industrial development can be made	The advantages and disadvantages of extracting a	An example of a local scale renewable energy scheme in a LIC: Peru, Chambamontera micro-hydro scheme		
more environmentally sustainable: Quorum Business Park	fossil fuel: FRACKING (the extracting of natural gas	In an isolated community in the Andes they have built a micro-hydro scheme using the mountains and rivers		
	by drilling into rocks which contain shale gas).	to power the local villages.		
	Positives			
Before Quorum	It is the cleanest of the fossil fuels with less than	Advantages of the scheme		
	45% less CO2 emissions			
58% of the UK's chemical and steel industries were there/Significant air		Healthcare has improved as it allows the refrigeration of medicines		
pollution/Used to be a manufacturing plant/5.6% of air pollution comes	Less risk of accidental accidents than oil.	Work and school facilities have improved as people can now work in the dark		
from there alone		Electricity is available now to heat homes in the harsh winters		
	Provides employment for 1.2 million people.	Less wood is needed to burn as a source of heat therefore: reduced deforestation and soil erosion		
Quorum is now sustainable because	Negatives	Disadvantages of the scheme		
	Wastewater and chemicals could contaminate			
Car sharing scheme for workers/500 trees planted/On site litter picking	groundwater and minor earthquakes are possible.	Built on steep slopes so difficult to maintain		
team/A quorum shuttle bus – Euro 5 engine/1000 solar panels/Lights		Harsh winters could damage the scheme		
on sensors/Glass to let in sunlight/Two beehives	Contributes to global warming by producing C02	Families have had to borrow money for the project		
on sensors/ diass to let in sumight, I wo beenives	emissions and methane.	 Private investment from Japan means the Peruvian government don't own the scheme 		
	Pipelines are expensive to build and maintain.			