

# URBAN ISSUES AND CHALLENGES CHANGING ECONOMIC WORLD



# DEVELOPMENT

# WHAT IS MEANT BY 'DEVELOPMENT'?

This means that positive changes that occur to make things better. It usually links to the standard of living and quality of life within a country or region WHAT IS THE 'DEVELOPMENT GAP'?

This is the difference in the standard of living and quality of life between the richest and poorest countries\_\_\_\_\_\_

# HOW DO WE MEQSURE DEVELOPMENT?

#### HUMAN DEVELOPMENT INDEX (HDI)

This is a social measure and ranks all countries between 0 and 1 – with 1 being the highest. It takes into account things like life expectancy birth/death rate (health) and education levels.

HDI takes into account lots of data that covers health and education below is a breakdown of the main types of data it involves:

TERM	WHAT IS IT?	TYPE			
BIRTH RATE	BIRTH RATE The number of live babies born per 1,000 people per year.				
DEATH RATE	The number of deaths per 1,000 people per year.	Health			
LIFE EXPECTANCY	Overage age a person can expect to live to.	Health			
INFANT MORTALITY	Number of babies born who die before age 1 per 1,000 people per year.	Health			
LITEROCY	Percentage of adults who can read and write.	Education			

#### GROSS NATIONAL INCOME (GNI)

This measures the economy of a country and is the total value of goods and services along with money earnt by a country. It is worked out per person within the country known as 'per capita'.

From the information we collect on development, countries are then placed into certain categories to reflect their 'level' of development. Below are the three main groups into which we group countries:

#### HIGH-INCOME COUNTRIES (HICS)

Countries with high levels of GNI which also generally mean that they have higher HDI scores due to greater level of income.

Examples: UK, USO, Japan

#### NEWLY EMERGING ECONOMIES (NEE)

Countries with growing economies as measured by GNI but HDI and living standards have not yet reached the same standard of HICs.

Examples: BRIC Nations (Brazil, Russia, India and China)

#### LOW-INCOME COUNTRIES (LICS)

Countries with low levels of GNI which also generally mean that they have lower HDI scores due to lower level of income.

Examples: Bangladesh, Nepal

-	COUNTRY	GNI PER HEAD (US\$)	HDI	BIRTH RATE	DEATH RATE	LIFE EXPECTANCY	INFONT MORTOLITY	LITEROCY
NOSI	UK	42,370	0.920	12	94	80.9	4.2	99%
₹ ₹	Nigeria	2,030	0761	35,2	115	59.3	63.3	59.67
5	Brazil	9,130	0534	13.9	6.7	74.3	16.9	92%

Obove data is from 2019.

# MAPPING DEVELOPMENT

The Brandt Line is an imaginary division that has provided a rough way of dividing all of the countries in the world in to the rich north and poor south. HOWEVER, since the 1980s many have argued that it is no longer relevant as NEEs have emerged to challenge this. It is worth nothing though that many of these NEEs exist close to the original Brandt Line.



Obove data is from 2018.

# MEASURING DEVELOPMENT PROBLEMS

THE PROBLEM WITH GNI

GNI per head can be misleading because it is an average. This means that variations within a country don't show up.

THE PROBLEM WITH HDI

Some nations have slightly different variations on themes such as literacy which creates problems.

#### GENEROL PROBLEMS

Information may be out of date, inaccurate or even unreliable due to collection methods. Odditionally, no official data takes into account informal economics which are common in LICs and NEEs.

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# DTM & POPULATION

Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Natural population increase population size	birth rate death rate		Doddowed	Natural population decrease

#### DEMOGRAPHIC TRANSITION MODEL

The DTM shows changes over time in the population of a country, taking into account the natural change occurring as a result of birth and death rate. Also, it shows the impact of migration BUT does not show the figures explicitly. Finally, the DTM is broken apart in to stages, each with different characteristics that reflect how developed a nation is.

# UNDERSTANDING THE STAGES OF THE DTM

	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Birth rate	High and fluctuating	High and steady	Rapidly falling	Low and fluctuating	Slowly falling
Death rate	High and fluctuating	Rapidly falling	Slowly falling	Low and fluctuating	Low and steady
Population growth rate	Zero	Very high	High	Zero	Negative
Population size	Low and steady	Rapidly increasing	Increasing	High and steady	Slowly falling
Example countries	No countries, some tribes in Brazil	Gambia (HDI = 0.4)	India (HDI = 0.6)	UK (HDI = 0.9)	Japan (HDI = 0.9)



Stage 1 Stage 2 Stage 3 Stage 4 Stage 5 HOW DOES THE DTM age age age LINK TO POPULATION? male female male female male female male female BRAZIL'S POPULATION PYRAMID



In 1980, Brazil showed all the characteristics of a Stage 2 country on the DTM. Notice the wider base and narrow top? This shows that Brazil had a younger population. However, by 2019 this has changed as Brazil shifted to become a NEE and Stage 3 on the STM. It's population has become more evenly distributed as birth rate declined and healthcare reduced death rate.

#### JAPAN'S POPULATION PYRAMID



Japan is beginning to show the signs of transitioning from Stage 4 to Stage 5 in the DTM. This is shown by narrowing population at the bast of the pyramid. This means that birth rate is declining. What makes this a problem is those widening bands of population amongst the older sections. This means that Japan's

population is aging which will present challenges of the future.

PROCTICE QUESTION I: USING THE DTM AND YOUR OWN KNOWLEDGE, SUGGEST HOW DEVELOPMENT LEVEL IMPACTS POPULATION (3 MARKS)

# POPULATION IN THE UK



# URBANISATION



24 Lagos, Nigeria, Al

rate so leads to more people.

#### HOW HAS THE ECONOMY OF THE UK CHANGED? 70 PRIMORY UK employment share (%) 60 50 SECONDORY 40 30 TERITORY 20 10 OLIOTERNOR 0 Pre-industrial Industrial Post-industrial 1800 AD 2000 AD

### WHAT CAUSED THIS ECONOMIC CHANGE?

#### DE-INDUSTRIALISATION

The UK has seen a decline in the traditional manufacturing industries that had emerged over the 1800s. This was due to: Å.

- Machines and technology replacing people.
- Other countries such as China produce goods cheaper due to less expensive labour costs.

#### GLOBALISATION

The growth and spread of ideas around the work has impacted the UK economy Many people now work for global companies, offering tertiary or quaternary services in areas such as IT or finance. Odditionally, cheaper alternatives for goods have emerged that made it costly to manufacture in the UK.

#### GOVERNMENT OCTIONS

Since 1945, the actions of the UK Government have also contributed to this change.

- Between 1945 and 1979, the UK created governmentowned industries such as British Rail whilst also paying money to unprofitable businesses to keep them open.
- 1979-2010 saw these government-owned industries sold to private companies in a process known as PRIVATISATION. Many older industries also closed due to lack of government support and newer private companies brought innovation and change - but often in the tertiary and quaternary sectors
- Since 2010, the Government have attempted to promote strategies to 'rebalance' industry and ensure that the economy is less reliant on tertiary services. This has included transport improvements such as HS2, new finance for manufacturing and appealing to global brands to move to the UK

Based in Cambridge, Antarctica and the Arctic, this organisation employs over 500 people. Working collaboratively with the University of Cambridge, the group researches the polar environments to help us understand the impact of humans on the natural systems of Earth.

In 1800, most people in the UK worked within the primary sector in farming or mining.

By 1900, the Industrial Revolution had taken place and changed the face. of the UK economy. Most people were not employed in manufacturing, or the secondary sector, working in factories to make steel, ships or textiles, for example.

Over the 20<sup>th</sup> Century, tertiary services such as customer service grew rapidly

Since the 1980s, jobs in the quaternary sector such as research, IT and the media have increased

# WHAT IS A POST-INDUSTRIAL ECONOMY?

This term is used to describe an economy where manufacturing (secondary) has fallen into decline which other industries such as the tertiary and quaternary sectors have rapidly increased

# FILLING THE POST-INDUSTRIAL VOID

#### DEVELOPMENT OF INFORMATION TECHNOLOGY (IT)

IT has become a key feature of the UK's economy as it has transitioned post-industry. Examples of its development include:

• Internet access to work from home - approximately 62 million users accessed the internet per month in the UK during 2020.

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- The IT sector employs 1.3 million people in the UK.
- The UK has emerged as one of the leading digital economies in the world

#### SERVICE INDUSTRIES AND FINANCE

Growing rapidly since the 1970s, it contributes 79% of the UK's GDP to make it the largest employment sector. Key features include:

- The growth of the finance sector around London which forms a key part of the service industry.
- London's emergence as a key centre for finance with the Stock Exchange operating as arguably the largest in the world
- Financial services alone account for 10% of the UK's GDP.

#### RESEARCH

Employing over 60,000 highly-educated people, the research sector is estimated to contribute over £3 billion to the UK economy and is one of the main areas of growth for the future. It covers a large range of organisations including the NHS, universities, the BBC and charities amongst many others.



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NEW

BRITISH



#### CHANGING LANDSCAPES IN THE UK



#### LOCATION

Spread across the UK, science and business parks are sites where similar-sector industries cohabitat due to a variety of factors.

### WHAT ARE SCIENCE PARKS?

O SCIENCE PORK is a group of science and technical research businesses which are located on a single site. These locations are usually chosen based on transportation links and the proximity to highly skilled employees found at university. O local example is Keele University which is a science and innovation park as well as a university.

# WHAT ARE BUSINESS PARKS?

O **BUSINESS PARK** is an area of land occupied by a cluster of businesses, again sharing a single site or area. In sharing an area, businesses promote co-operation and can benefit each other. They are usually found on the edge of towns due to land being cheaper and easier transportation access.

# SCIENCE AND BUSINESS PARKS IN THE UK

#### GROWTH CORRIDORS

These are areas in which there are fast economic growth. Many of the science and business parks of the UK are found along major transport routes, creating 'corridors' for the growth of science and business parks.

The map shows some of these corridors in England.

TACKLING THE

NORTH-SOUTH DIVDE

# COMBRIDGE BUSINESS PORK

Cambridge is fast emerging as one of the UK's main hubs for high tech industry with the business park opening in 1972 by the nearby Trinity College. Over 1,500 information technology and biotechnology companies are now based there. Cambridge is a perfect location for the types of hi-tech, often quaternary industries that locate there due to its university links and the fact that the M11 offers a very quick route to London and beyond Stanstead airport is 30 minutes down the motorway along a growth corridor Many of the high-tech companies were student-led start-ups who did not want to leave the areas. Some, like the biotech company Qbcam, have grown into successful companies (it is now worth £1 billion, employing 200).

#### ALL YOU NEED TO KNOW ABOUT . . .



LOCAL ENTERPRISE PARTNERSHIPS (LEPS)

• Voluntary partnerships between local

Identify business needs and encourage

investment to boost the local economy

authorities and businesses.

and create jobs.

#### WHAT IS THE NORTH-SOUTH DIVIDE?

The UK is a very diverse place in terms of its economy and culture which has led to the emergence of a real difference between the south and north of the country.

The North is generally considered to be less developed, diverse and struggling economically whilst the South has higher wages, longer life expectancy and higher house prices amongst many other things. This is shown to the map to the left.

# WHY DOES THE DIVIDE EXIST?

During the Industrial Revolution of 18<sup>th</sup> and 19<sup>th</sup> Century, much of the economic growth in the country was around coalifields, heavy industry and engineering — all of which were predominately found in the North. However, since the 1970s these industries have declined and economic prosperity has been reduced. Odditionally, at the same time London and the South-East have developed rapidly due to fast-growth in the tertiary and quaternary sector.

#### HOW HAS THE NORTH-SOUTH DIVIDE BEEN ADDRESSED?

#### LANCASHIRE LEP

- Through the promotion of new businesses, the LEP aims to create 50,000 new jobs by 2023.
- Plans to improve transportation links with £20 million investment.
- Extend superfast broadband so it covers 97% of the region.
- Create 6,000 high-skilled jobs in Enterprise Zones at Samlesbury and Warton.

#### ENTERPRISE ZONES

Designed to encourage new businesses and jobs, these zones also have government support which includes:

- Discounted business rates to attract companies.
- Provision of superfast broadband
- Creation of simpler planning regulations

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THE UK AND

ALL YOU NEED TO KNOW ABOUT

ALL YOU NEED TO KNOW ABOUT . . .

# BRISTOL: LOCATION



MGRATION 40 - 44 · Mainly young people which helps balance **a** 30 - 34 Pressures on housing and employment an aging population 20 - 24 • The need to provide education for 10 - 14 · Hard working, motivated workforce children whose language is not English 0 - 4 • Contribute to the local and national · Challenge of integration within community economy Bristol's Population Pyramid (2018)



#### The city has setup a system to retain and reuse rainwater with any surplus seeping back into the ground. This involves the use of green roofs, unpaved tramways and pervious pavements, all which support the retention, reuse or seepage of water.

#### TROFFIC MONOGEMENT

Oll traffic in the city is managed as part of an integrated system which includes 400km of cycle paths and restrictions on where people can park. Tram routes have also been connected to bus routes to improve public usage which is supported by low fares. It is also estimated that 70% live within 500m of a tram stop! This has led to an increase of tram usage by 25,000 and a reduction in cars of nearly 30,000 journeys.

#### The city has put in place a strict energy policy based on saving energy, efficiency and renewable usage. They take advantage of Freiburg being one of the 'sunniest' cities in Germany by using solar power - about 400 solar panel installations exist in the city. They also create electricity from biomass (burning waste for fuel) to produce biogas - enough for an estimated 28,000 homes. Additionally, residents are encouraged to personally invest in renewable resources.

#### GREEN SPOCES

Freiburg has planted 44,000 trees, left the River Dreisam unmanaged and worked to ensure that 40% of the city is forested. This helps to keep the air clean, provide a natural resource for recreation and provide habitats for wildlife.

PRACTICE QUESTION I: DEFINE THE TERM 'SUSTAINABLE URBAN LIVING' (I MORK)

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PRACTICE QUESTION 2: DESCRIBE HOW WATER CONSERVATION SCHEMES CAN HELP MAKE A CITY MORE SUSTAINABLE (2 MORKS)

CHANGE AND OPPORTUNITY

IN BRISTOL

#### SOCIAL CHANGE

O growing, ethnically diverse population that has good transport links allowing over 2 million people to easily commute to the city

#### SOCIAL OPPORTUNITIES

ENTERTAINMENT: A youthful population means there is a range of bars and nightclubs as well as the growth of music Colston Hall caters for live music, Bristol Old Vic for theatre and migrants contribute to this sector.

SHOPPING: Outdated facilities led to people shopping out of town at Cribbs Causeway. In order to draw people back into the two centre, two retail developments were implemented. Cabot Circus, opening in 2008 and costing £500 million, combined shopping and leisure including a cinema and a hotel along with 250 apartments. The Harbourside development saw dockside buildings converted into cultural venues and nightclubs as well as the Qt-Bristol Science Centre. It also hosts an annual festival that attracts 300,000 visitors. SPORT: Bristol has two professional football teams - City and Rovers as well as a rugby union team Oil teams are developing their stadiums to provide a range of leisure and conference facilities. Bristol City have successful developed Oshton Gate Stadium



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### THE CHALLENGES FACING BRISTOL

#### ISSUE I: Many industrial buildings that served the Port and other associated buildings are now derelict BRISTOL HAS CHANGED! • The Port, which formerly dominated industry in the area, has been replaced with newer ISSUE 2: A growing population needs somewhere to live which has led to <u>urban sprawl</u> on the outskirts. tertiary and quaternary industries. • The population of Bristol is rapidly growing ISSUE 3: Building of new homes has spread across both greenfield and brownfield sites. and forecast to surpass 500,000 by 2027 ISSUE 4: Social inequality within Bristol has grown, leading to massive differences between communities. · Much of this population growth is the result of migration which has contributed to Bristol becoming a vibrant, ethnically diverse city. ISSUE 5: More people means more waste & pollution so disposing of it is problematic. DERELICTION SOLUTION 1: Bristol City Council gained grant money from the STOKES CROFT National Lottery to improve the area. Once home to industrial workers, the housing has been left and become derelict. This has led to problems with squatters, SOLUTION 2: Octivities and artists revitalised the area through riots and anti-social behaviour. community action including public art project such as graffiti art. HOW HOS IT EMERGED? INNER-CITY SOLUTION: Developing inner city brownfield sites like Harbourside has reduced the need for URBON SPROWL greenfield building by increasing housing within the inner city. More on this below. More people means more homes. To solve this issue, Bristol has expanded on the rural-GREEN BELT SOLUTION: Os the map shows, a belt was setup around Bristol in urban fringe particularly to the which building was forbidden. Additionally, on the outskirts of this 'Green Belt' towns such as Wotton-under-Edge were expanded and become commuter north-west of the city with the creation of new towns like settlements by taking advantage of the good transport links in the region Bradley Stoke including new transport schemes \_\_\_\_\_ BROWNFIELD SITES KEY FOCT: Between 2006 and 2013, 94% of new homes were built on brownfield land including student SITES 1,200 homes were built at accommodations. Harry Stoke with a further Negatives/Disadvantages Positives/Odvantages HORBOURSIDE DEVELOPMENT 2,000 more to be built from GREENFELD 2017. however, local people Closure of the port left buildings Replace a run-down area with a Orchitecture of buildings has led empty and derelict. These to some complaints. Often costly objected due to traffic more modern centre, reducing buildings were regenerated to derelicts. Encourage people to due to demolition and decongestion, noise/air pollution, loss of animal habitats and the meet housing and cultural needs live in the city-centre, preventing contamination which has made effect on local flood risks. of the Bristol community. urban sprawl homes expensive. WASTE SOCIAL INEQUALITY Investment patterns in Bristol have led to inequalities between areas and KEY FOCT: Bristol produces half a million tonnes of waste per year - but this higher levels of social deprivation - meaning that some areas of the city lack is 23% per person less than the national average. However, it is amonast the the facilities and infrastructure of others. One such place is Filwood worst for food waste. HOW HAS BRISTOL, REDUCED THE IMPACT OF WASTE? **FILWOOD** STOKE BISHOP • For items sent to reprocessing plants for recucling, income is HOUSING 81% of homes are 41% live in council homes, double the provided. average for Bristol Ovonmouth waste treatment plant treats 200,000 tonnes per year. privately owned. Non-recuclable waste is used to create energy for 25,000 homes. EDUCATION Overage GCSE grade was 3.4, a full Over 50% of the area KEY FOCT: Mostly caused by vehicles, atmosphere pollution causes an grade below the city average. hold a degree. estimated 200 people to die prematurely per year in Bristol. HOW HAS BRISTOL REDUCED ATMOSPHERIC POLLUTION? HEOLTH Has higher rates of obesity in children Lower death rates and • Setup a walking and cycling route to the city centre known as the and average life expectancy is only 78. life expectancy is 83. Frome Gateway · Established an electric vehicle programme. 1 in 3 16-24 year olds unemployed. ଞ • Created a smartphone app for information on public transport Only 3% unemployed Most parents work low income jobs. including delaus, connections, etc.

# **REGENERATING BRISTOL**



#### ARENA ISLAND

Cheve a new bridge was built across the River Ovon to the site of the former diesel depot. This gives access to the New Bristol Orena which is a 12,000-seat sporting arena.

#### TRANSPORT LINKS

Improvements have been made to Temple Meads station, turning it into a modern transport hub, to encourage more people to travel by train into Bristol Odditionally, the road layout has been improved along with links to the rapid transport network and the Bristol-Bath cycle network

# WHAT HAS BEEN DONE TO REGENERATE THE TEMPLE QUARTER?

#### ENTERPRISE ZONE

240,000m<sup>2</sup> of either new or refurbished buildings have build implemented which has created offices, homes and shops. The target is to create 4000 jobs by 2020 and 17,000 by 2037. O key example is Brunel's engine shed, which is a £17 million innovation centre that will serve as the home for high-tech, creative and low carbon sector companies.



a playlist with a range of videos

touring the Bristol area.

STUDY FIGURE I IT IS A GRAPH SHOWING THE AVERAGE GCSE PERFORMANCE OF 16-YEAR OLDS IN 2019 THE AVERAGE FOR BRISTOL WAS 44.2 WHICH MEANS THAT THE AVERAGE CHILD ACHIEVED JUST OVER A GRADE 4 IN THEIR GCSE EXAMS

PRACTICE QUESTION I: USING FIGURE I AND YOUR OWN KNOWLEDGE, SUGGEST REASONS FOR INEQUALITIES IN EDUCATION ACROSS BRISTOL. (4 MARKS)

PRACTICE QUESTION 2 OUTLINE ONE WAY THAT NATIONAL MIGRATION HAS LED TO CHANGE IN THE CHARACTER OF A NAMED UK CITY. (2 MARKS)

PRACTICE QUESTION 3: TO WHAT EXTENT HAS URBAN CHANGE CREATED ENVIRONMENTAL CHALLENGES IN BRISTOL? (9 MARKS)

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- · Some have limited access to raw materials so cannot develop or cannot afford to exploit the resources they do have.
- order to develop or rebuild following natural disasters. However, this has to be repaid which reduces the money for development.
- education are often cut as a result

This uneven development in the world has led to consequences for much of the world. Such an imbalance between the rich and poor is a major problem, creating division and inequality between different countries but also amongst people within the same country. What then are the main consequences?



#### WEALTH

GNI between countries at different stages of development can be massive. For example, the GNI of the UK is \$43,190 per person over 20 times that of Nigerial

However, there are also issues within a country. For example, in Kenya the richest 10% of people earned 23 times more than the lowest 10%. Similar examples can be seen with the UK as the south dominates economically.

This all combines to impact the standard of living within a nation or region as wealth impacts the ability of people to afford services which improve life.



More developed countries tend to have better healthcare which leads to longer life expectancy. For instance, people in Britain are expected to life an extra 21 years compared to someone in Nigeria. This healthcare standard also impacts other measures like infant mortality; Nigeria's figure is almost 15 times higher than the UK's.

Combating infectious disease is also an issue; in HICs, medical treatments are readily available to treat illnesses like malaria but not in LICs meaning these diseases have higher death rates.

All of this combines to create higher death rates in the developing world due to poorer healthcare impacting standard of living.

#### MIGRATION



This is the movement of people from place to place; international migration is often a consequence of uneven development as people want to improve their standard of living. However, this can be voluntary or forced!

The conflict in Suria has led to an example of forced international migration; 4 million people fleeing the country to camps in Turkey, Jordan and Lebanon. Thousands more have attempted dangerous sea crossings across the Mediterranean. On estimated 1.1 million migrants entered Germany in 2015. This led to the EU agreeing to provide Turkey with benefits in return for taking emigrants back.

IMMIGRANT: Person moving into a country EMIGRANT: Person leaving a countru

ECONOMIC MIGRANT: Person who moves voluntarily to improve their

**REFUGEE:** Person forced to move as the result of war or disaster. DISPLACED PERSON: Person forced to move but stays within country



# **REDUCING THE DEVELOPMENT GAP 2**

# WHAT IS FREE TRADE?

Free trade is when countries do not charge tariffs or have quotas on goods.

TORIFFS are taxes that are paid on imports which make goods more expensive. They are usually put in place to discourage people from buying foreign goods and force them to buy local instead.

QUOTOS are limits placed on the imports of goods. They usually target primary products and are again designed to force people to buy local versions instead so as to boost the economy.

Trade without tariffs or quotas can benefit developing countries by increasing access to richer economies. However, some countries put tariffs or quotas in place to promote their own goods. Some even go so far as to grant farmers and industries subsidies which helps them to be produce goods at cheaper prices than poorer countries can. To solve this, trading groups have formed that encourage free trade between countries without tariffs or quotas.

# CLOSING THE GOP THROUGH FOIRTRODE

Fairtrade is an international movement which seeks to reduce the development. gap by improving the quality of life for ordinary farmers. It helps to ensure that producers in countries get a fair deal: it guarantees the farmer a fair price, usually involving farmers getting all the money from the sale of their crop.



The banana is a crop that is increasingly involved in Fairtrade now. Below shows the breakdown of where the money you pay for a banana goes. The 14% that goes 🛐 to a banana producer under this deal is double what a non-Fairtrade banana grower gets.

# ALL YOU NEED TO KNOW ABOUT .



# HOW HAS TOURISM IMPACTED DEVELOPMENT?

PROVIDES ON ECONOMIC BOOST: In 2014, tourism was worth 24% of the Jamaican economy by generating \$22 billion dollars. The Government acquires large amounts of this through taxes which can be used to boost the development of the nation. Cruise passengers spend \$70 per day whilst other tourists are spend an estimated \$120.

SPENDING ON INFROSTRUCTURE: The North Coast, a centre for tourism, has seen high levels of investment. Improvements have also been in the development of new port and cruise lines facilities to support tourism. However, some parts of the island still remain isolated due to poor roads and have not received improvements at the same pace if they are not linked to tourism.

CHONGING QUOLITY OF LIFE: Tourism in Jamaica provides income for people so that the local economy can improve further. In the northern tourist areas, wealthy Jamaicans live in high quality housing with a high standard of living. These areas have benefited from tourism. Community and eco-tourism is also expanding into more isolated regions with people running small-scale quest houses or acting as quides, helping to improve these regions. However, large numbers of people live in poor housing with limited food supply and inadequate supplies of fresh water.

CHONGING ENVIRONMENT: Eco-tourism is growing in popularity in isolated regions and conservation projects are emerging to create job opportunities However, tourism has caused environmental problems such as path erosion, waste and harmful emissions.

#### JAMAICA AND REDUCING THE **DEVELOPMENT GAP**

# KEY FOCTS

- Largest island in the West Indies with a population of 27 million (just over a third the size of London.
- The economy is based upon a range of minerals (bauxite and oil), agricultural products (sugar and rum), and some manufacturing
- Developmental, it is is classed as an 'upper middle income country' with a HDI score of 0.726 and GNI of \$8,900 per person.
- · However, it has suffered from slow growth along with high debt and high unemployment over a long period.

# TOURISM FOCTS

- 2.1 million people visited Jamaica directly in 2014 with this number growing over the following years. O further 1.4 million people stopped over in Jamaica via cruises.
- In 2014, an estimated \$2.2 billion was generated by tourism
- Most tourists come from North America and Europe.
- Over 200,000 people are employed in jobs relating to the tourist industry.
- · Has a wide variety of activities including swimming and
- historical attractions that provide appeal to tourism. TOURIST ATTRACTIONS IN JAMAICO Sketch map of Tourism in Jamaica Caribbear Sea Caving

18	18 ALL YOU NEED TO KNOW ABOUT									
   !	GL	_OBQL	LOCATION		WHY IS NIGERIA GLOBALLY IMPORTANT?					
Located in West Ofrica, Nigeria is surrounded by four countries as well as the Otlantic Ocean.					ECONOMIC IMPORTANCE: The 26 <sup>th</sup> largest economy in the world during 12019 Nigeria accounts for 27% of oil in the world. This means that much of SUG Nigeria's economy is based on the extraction and sale of oil leading to the development of a diverse range of services to support.					
The area of coastline around Nigeria is known as the Gulf of Guinea.					POLITICAL IMPORTANCE: Nigeria is a key contributor to the United Nations and its peacekeeping operations. The country has consistently been involved in peacekeeping efforts since the 1960s, including the 2018 mission to embed democracy in Liberia.					
REGIO	REGIONAL MAP WHY IS NIGERIA REGIONALLY IMPORTANT?									
CABO MAURITANIA MALI NIGER VERDE SENEGAL THE GAMBIA GUINEA GUINEA BURKINA FASO					ECONOMIC IMPORTANCE. Os one of the fastest growing economies in Ofrica, ART Nigeria is also the largest economy in Ofrica with the third largest manufacturing sector on the continent. Beyond oil, a large proportion of the population are employed in agriculture with Nigeria have the largest farming output in Ofrica.					
SI	LIBERI	CÔTE D'IVOIRE			POLITICAL IMPORTANCE: With the largest population in Ofrica, Nigeria has great influence over the region but is plagued by internal problems of corruption and lack of infrastructure.					
NG	ERIQ'S IN	TERNO	TIONAL FRIEND	SHIPS	POLITICAL CONTEXT					
OPEC	Organisa Petroleum E Count	Exporting	Control the price o ensure that a regula maintained		Exploited by the British Empire in the 19 <sup>th</sup> Century, Nigeria saw its resources and people taken. It was only granted independence in 1960. Development after independence has been difficult as the country lacked infrastructure and saw widespread corruption grow. However, since 1999 it has had a stable government					
CEN-SOD	Community Saharan		Q trading group whic attempting to develop links.		which had led to increased international investment — particularly from China and the USO.					
Economic Community of West Ofrican States Base States Base States Base States Base States Base Community States Base States State		ied on the	SOCIAL CONTEXT Multi-ethnic and multi-faith. Today this is considered a good thing but in Nigeria's history, it has led to civil wars between 1967 and 1970. Recent economic growth has led to a north-south divide. The Islamic north of Nigeria and the Christian south have seen economic inequality grow. This has led to the re-emergence of							
i I OFRIC	AFRICAN UNION Focuses on economic planning and peacekeeping		ning and	some social tensions and created instability which has impacted the economy						
Global organisation in which Nigeria supports peacekeeping operations.		a supports	CULTURAL CONTEXT Cinema has developed with 'Nollywood' emerging as the second largest film industry in the world — only behind 'Bollywood' in India.							

## THE NIGERIAN ENVIRONMENT

The Jos Plateau is an upland region that is wetter and cooler than the surrounding savanna. It is heavily populated with farms and woods.

High temperatures combine with high rainfall near the coast. Mangroves line the coast but farms are common - especially cocoa. However, the tsetse fly makes keeping cattle impossible.



Os rainfall declines and temperature increases, the environment of Nigeria turns into semi-desert.

Savanna, or tropical grassland, dominates the interior of Nigeria. It is used for grazing cattle as well as growing crops such as cotton.

#### THE ECONOMY AND INDUSTRY OF NIGERIA

# UNDERSTANDING NIGERIAN EXPORTS

#### WHAT DOES NIGERIA EXPORT?



#### WHERE DOES NIGERIA EXPORT TO?



<sup>2018</sup> EXPORT VOLUE = \$595 BILLION

- Oil dominates Nigerian exports with 91.7% of all exports relating to the oil industry.
- Changes in actions in the USO have seen a decline in their 'share' of exports with India becoming the largest consumer of Nigeria oil
- Only Ghana and Ivory Coast are regional based trading partners the next closest is then South Ofrica.



#### UNDERSTANDING NIGERIAN IMPORTS

WHAT DOES NIGERIA IMPORT?

Mineral fuels, mi and products of distillation; bitur	Ships, I floating		114%	0.10%	Plastic and ar thereo	ticle of				
substances; mineral waxes		8.62% Vehicles; other than tailway or tramway rolling stock, and parts and accessories				0.84%	1.0%		3.97%	
20.8%		Dered	6.83%		_	Cere	als		143%	0.87
Nuclear reactors,	Electrical machinery and equipment and	products	1.23%			3.5	1%			100
boilers, machinery and mechanical	parts thereof, sound recorders and reproducers, television image and sound	2.72%	1.2%	1.00%		0.96%	0.74%	2020 6.60%	1.176	1.699
appliances; parts thereof	recorders and reproducers, parts and accessories of such articles	Iron or ste articles			11	L.NYS	- Andreas	22.	ini i	11
10.1%	7.04%	2.72%				1.69	16	0.0%	6.70%	

#### WHERE DOES NIGERIA IMPORT FROM?

China	Indi	а			Netherland	S Belgium- Luxembourg			United States
	5	.679	%						
	United Emirate		Malays	ia	10.3%		6.93	%	5.37%
	1.88	%	1.18	16	United	Ital	/ France	Norway	South
27.5%	Indonesia	Saudi Arabia		₽y	Kingdom 3.69%				Africa 1.24%
27.5%	1%	0.949		_	Russia	1.91%		1.52%	Ranoco Ower E.35% L.8%
South Korea	Japan 0.85%				2.44%	Spain 0.65%	Tenter		Brazil
	Hong Kong Elitik			*	Germany	Ireland 0.6%			
9.78%				Ŧ	2.27%				1.48%

2018 IMPORT VOLUE = \$4.8.7 BILLION

- Processed, or manufactured goods, dominate the imports of Nigeria.
   However, it is interesting to see that Nigeria imports components such as plastic which are made from oil.
- It is not surprising to see that China sells a lot of manufactured goods to Nigeria — it is after all providing a large amount of investment into the nation so would look to maximise the investment.
- Secondary sector employment has increased in Nigeria as a result of the oil industry and associated manufacturing facilities.
- With Nigeria's position in West Offrica and importance to the area, it has emerged as
  a communications hub for the region. This has led to increased employment in the
  finance, communication and retail sector.
- Primary sector employment, through agricultural jobs, has declined due to increased use of machinery and better pay in other sectors.

Oll of these changes have helped changed the economy in Nigeria to a more balanced version.

#### GROWTH OF MANUFACTURING

NG In total, manufacturing has grown to account for approximately 10% of Nigeria's GDP. However, it is still limited by the over-reliance of the country on the exportation of raw materials.

Nigeria is an example of the multiplier effect in action though because:

	regular paid work.	This has provided people with a secure income that has allowed markets for Nigerian manufactured goods to emerged
     	growth of companies.	Os workers have more stable income, their spending has allowed new businesses to emerge such as those that supply parts for cars.
     	higher employment	For the government, this means more taxes are collected to support public spending
     	growth of investment and new industries	A growing economy is attractive to investors like the Chinese and this combines with the emergence of new industries like chemical industries which take advantage of Nigeria being a good place for investment and abundant raw materials



WHAT IS MEONT BY TNC?         The terms stores for Transmotional Corporation These are companies that greated in nutritie notions with specific nations handling distribute elements of the TNC's produtt.       The official relation of the specific nations handling distribute elements of the TNC's produtt.         Royal Data Media Or Shell OL as thay are more commonly brown one a TNC whose headquarters are tased in the Netherbrish in 2015 if was considered the "9" angest company in the work flowly its researe two teen edored on the products of an expected integration of the top of the specific nations in the 2016 if was considered the specific nations in the 2016 if was considered the specific nations in the 2016 if was considered the specific nations in the 2016 if was considered the specific nations in the 2016 if was considered the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in the 2016 if was considered to the specific nations in	20 ALL Y	OU NEED TO KNOW AB	OUT TNCS AND AID IN NIGERIA					
<ul> <li>Ragal Dutch Shel, or Shell OI as they are more commonly known, are a TNC whose headquarters are based in the NAthrokinskin h. 2016, it was considered the 3rd largest company in the workt through is reverue has been declining or more in points of \$164 bilon.</li> <li>The OIL TRODE – ON OVERVIEW</li> <li>The Companies rected while platforms on the ol and gas fields around the Nager Delta.</li> <li>Shel has inseted by graphes to export terminals in the Golf of Gunea. In total there are 18 predires which transport oil to one of six export terminals. Shel own to of three are no cases to chain water.</li> <li>The platforms are liked by predires to export terminals in the Golf of Gunea. In total there are 18 predires who to transport oil to one of six export terminals. Shel own to of speed onto to arkers. The average tarker a day</li> <li>The oil is shipped to Europe, the USD and had amongst others where it is refined nto perform and other of products.</li> <li>Of Gunea. In County or non-governmental organisation (NGO) such as Cucking and a speer resources to another country to the restore of a country con-governmental organisation. (NGO) such as Cucking and an amoner to moreous to another country to help it which pregress graves to an outer and the restore of a country con-governmental organisation. (NGO) such as Cucking and the single-emmines down and the restore of a country con-governmental organisation (NGO) such as Cucking and and single-provide support to another server and contrary and baland arrongement to another server and contrary or non-governmental organisation (NGO) such as Cucking and and single-provide supports con and and experises to an other restores of a country con-governmental organisation (NGO) such as Cucking and and single-provide supports con-more proved billing of the restore of a country contrary to another here many countres are nucleated and and contrary on the plane in a more restores to another restore of a country no bidden arrongement three remain</li></ul>	The terms stands for operate in multiple nation	Transnational Corporation'. These are companies that	The oil industry in Nigeria is located around the Niger Delta region, which is where the Niger River flows into the Gulf of Guinea. 18 pipelines operate and in					
THE OL TRODE – ON OVERVIEW         The companies erected driling platforms on the ol and gas fields around the Nger Deta.         The platforms are linked by predires to export terminals in the Gui of Guines to total three are listed by predires to export terminals in the Gui of Guines to total three are listed by predires which transport of to one of six export terminal the crude of six export terminal the crude of the predires which transport of to one of six export terminal the crude of the prediction barrels – Nigena produces encuginal to fill a tanker a day         The of is shipped to Europe, the USC and India amongst others where it is thered into petrol and other of products       Prediction the output of the are when the side of another country to help it develop or mprove people's likes         OUTING       Old is when a country or non-governmental organisation (NGO) such as Oxfam dondes resources to another country to help it develop or mprove people's likes         No. of Countries       Sind -term aid is guen in response to an event, whils long-term siguen in a monner to improve the realigned aroung country Long-term aid con really leb to close the agay         No. of Countries       Sind -term aid is guen in response to an event, whils long-term siguen in a monner to improve the reall here are moled, this single countries often provide support to another country to help it develop or mprove people's likes         No. of Countries       Single countries often provide support to another country to help it develop or mprove people's likes         No. of Countries       Single countries often provide support to another country to help it develop or marked and aroung-ment. Where many countries are moled, this is mu	Royal Dutch Shell, or Si whose headquarters and the 3 <sup>rd</sup> largest compar	nell Oil as they are more commonly known, are a TNC e based in the Netherlands. In 2018, it was considered ny in the world though its revenue has been declining	<ul> <li>Shell provides direct employment for 65,000 Nigerian workers and a further 250,000 jobs in related industries.</li> <li>Shell has invested huge amounts of money and expertise into extracting oil in the Niger Delta.</li> <li>Shell has supported the growth of Nigeria's energy sector through investment.</li> <li>In 2018, approximately \$5.9 million was invested in educational scholarships in Nigeria.</li> <li>Shell oil currently supports 27 health facilities in the Niger Delta, including</li> </ul>					
Gunea h total, there are 16 prelines which transport oil to one of six export terminals Shell own two of there.       9 million oil barrels spill in the last 50 years causing water and soil pollution, 75 / of rural areas have no access to clean water.       9 million oil barrels spill in the last 50 years causing water and soil pollution, 75 / of rural areas have no access to clean water.       9 million oil barrels spill in the last 50 years causing water and soil pollution, 75 / of rural areas have no access to clean water.       9 million oil barrels spill in the last 50 years causing water and soil pollution, 75 / of rural areas have no access to clean water.       9 million oil barrels spill in the last 50 years causing water and soil pollution, 75 / of rural areas have no access to clean water.       9 million oil barrels spill in the last 50 years causing water and soil pollution, 75 / of rural areas have no access to clean water.       9 million oil barrels spill in the last 50 years causing water and soil pollution, 75 / of rural areas have no access to clean water.       9 million oil barrels spill in the last 50 years causing water and soil pollution, 75 / of rural areas have no access to clean water.       9 million oil barrels spill in the last 50 years causing water and soil pollution, 75 / of rural areas have no access to clean water.       9 million oil barrels spill in the last 50 years causing water and soil pollution, 75 / of rural areas have no access to clean water.       9 million oil barrels spill in the last 50 years causing water and soil pollution, 75 / of rural areas have no access to clean water.       9 million oil barrels spill in the last 50 years causing water and soil to an increase in polecty resulting from the pollution has also damaged farmands to cost so oil spiels and this has also damaged farmalands occes causing water and soil for an i	The companies erector the Niger Delta.	ed drilling platforms on the oil and gas fields around						
(NGO) such as Oxfam donates resources to another country to help it develop or improve people's lives.       Image: Countries of the resilience of a country Long-term aid can really help to close the gap.         No. of Countries       Single countries often provide support to another countries are involved, this is multilateral aid         Text?       Oid given with conditions that must be met or aid	Guinea In total, there export terminals. Shell At the export termin tanker can hold appro oil to fill a tanker a do The oil is shipped to E	; are 18 pipelines which transport oil to one of six own two of these. al the crude oil is piped onto tankers. The average oximately 2 million barrels — Nigeria produces enough iy!	<ul> <li>9 million oil barrels spilt in the last 50 years causing water and soil pollution, 75% of rural areas have no access to clean water.</li> <li>Frequent oil flares send toxic fumes into the air which has led to an increase in poverty resulting from this pollution. This pollution has also reduced fishing yields as fish die to oil spills and this has also damaged farmland so crops can no longer grow.</li> <li>Oil theft and sabotage are big problems. This reduces oil production and</li> </ul>					
Very provide Shell's given in response to an event whilst long-term is given in a manner to improve the resilience of a country Long-term aid can really help to close the gap.       Improving infractructure 6 given in a manner to improve the resilience of a country Long-term aid can really help to close the gap.       Improving infractructure 6 given in a manner to improve the resilience of a country Long-term aid can really help to close the gap.       Improving infractructure 6 given in a manner to improve the resilience of a country Long-term aid can really help to close the gap.       Improving infractructure 6 given in a manner to improve the resilience of a country Long-term aid can really help to close the gap.       Improving infractructure 6 given in a manner to improve the resilience of a country in a bilateral arrangement. Where many countries are involved this is multilateral aid.       Improving infractructure 6 given in a manner to improve the resilience of a country in a bilateral arrangement. Where many countries are involved this is multilateral aid.       Improving infractructure 6 given in a manner to improve the gap.       Improving infractructure 6 given in a manner to improve the gap.       Improving infractructure 6 given in a manner to improve the gap.       Improving infractructure 6 given in a manner to improve the gap.       Improving infractructure 6 given in a manner to improve the gap.       Improving infractructure 6 given in a manner to improve the gap.       Improving infractructure 6 given in a manner to improve the gap.       Improving infractructure 6 given in a manner to improve the gap.       Improving infractructure 6 given in a manner to improve the gap.       Improving infractructure 6 given in a manner to improve the gap.       Improving infractructure 6 given in a manner to improve the ga	(NGO) such as	Oxfam donates resources to another country to help	Such as Shell start refining oil in Nigeria					
No. of Countries       Single countries often provide support to another country in a bilateral arrangement. Where many countries are involved, this is multilateral aid       Taxes to the government from the business increases       Local people work and earn more money from shell than local firms         Tied?       Aid given with conditions that must be met or aid can be lost       Image: Country in cail business increases       Local people work and earn more money from shell than local firms       Local people work and earn more money from shell than local firms	NOXHL Length of   Clob	whilst long-term is given in a manner to improve the resilience of a country Long-term aid can						
Tied? Aid given with conditions that must be met or aid the met or	No. of SOUCCOUNTRIES	country in a bilateral arrangement. Where many	Taxes to the government from the business increases					
NIGERIA AND THE USE OF INTERNATIONAL AID	D Tied?	can be lost	morey in local businesses					

# NIGERIU UND THE USE OF INTERNUTIONAL UID

MULTILATERAL AID	The World Bank approved a \$500 million loan in 2014 that was used by Nigeria to support developmental projects and provide further loans to businesses.
BILATERAL AID	The USQ provided further aid by helping to support medical provisions aimed at preventing the spread of HIV/QIDS in Nigeria.
VOLUNTARY AID	Non-Governmental Organisations like Nets for Life work within Nigeria. Nets for Life work to educate the Nigerian people on malaria prevention as well distributing anti-mosquito nets.

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# IMPACT OF DEVELOPMENT ON NIGERIA



- The general health of the population has improved; diet has got better which means workers are more productive and health care has also improved.
- Job reliability has also increased which has given workers wage security.
- HDI has been increasing since 2005 and is expected to continue.
- seen. Over-reliance on oil could become a long-term problem.
- Various environmental issues are emerging such as polluted water, deforestation and loss of biodiversity.
- Tensions still exist between different tribal groups in society. For example, Boko Haram spread fear and negatively impact foreign investment by conducting public kidnappings.

PRACTICE QUESTION I: WRITE DOWN TWO REASON WHY AID TO NIGERIA OR COUNTRIES MAY NOT ALWAYS BE EFFECTIVE. EXPLAIN YOUR ANSWERS FULLY (4 MARKS)

PRACTICE QUESTION 2: USING A CASE STUDY OF A LIC OR NEE COUNTRY, EXPLAIN THE LINK BETWEEN TRANSNATIONAL CORPORATIONS (TNCS) AND INDUSTRIAL DEVELOPMENT IN THE COUNTRY. (6 MORKS)



# KEY FOCTS

- Situated on the Otlantic coast of Brazil
- Located around a large natural bay called Guanabara Bay.
- Not the political capital of Brazil today but was before 1960 However, it is the cultural capital of Brazil
- Estimated population of 6.7 million people

### LAND USE IN RIO

#### THE WEST ZONE:

- The Barra de Tijuca area has changed from lower-class into a wealthy coastal community with luxury apartments and shopping areas.
- The Capo Grande area still have low-quality housing and is built around a large steelworks.
- The main campus for the 2016 Olympic stadiums and living accommodations are also here.

#### THE NORTH ZONE:

- Home to the main industrial and port area of the city.
- Rio's International Oirport and the world-famous Maracana football stadium are located in this region.
- It is also home to a large area of low quality housing and a 1,000 favelas.
- Location of Tijuca National Park.





#### CENTRO:

- Oldest part of the city with many historical buildings including the city's CBD and main shopping area.
- Has a financial district that includes headquarters for Petrobras and CVBB, Brazil's largest oil and mining companies.

#### THE SOUTH ZONE:

- Opened to develop after tunnels were cut into the mountains, creating a region that is both the richest and poorest.
- Location of the main tourist section with Copacabana and lpanema beaches in this area along with up-market hotels.
- All this is overlooked by Rocinha, the largest favela in Rio with unofficial estimates placing the population at 180,000 in an area less than 1 mile squared.

# WHY IS RIO GLOBALLY IMPORTANT?

**RIO: LOCATION** 

AND GROWTH

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ECONOMIC IMPORTANCE: Second most important industrial centre in Brazil with around 5% of Brazil's GDP produced in Rio. It is also home to major chemical, pharmaceutical, clothing and food processing industries along with services including banking and finance.

**CULTUROL IMPORTONCE**: Home of 50 museums and the international festival called *Carnival* (Rio is a UNESCO World Heritage Site and is home to the famous Christ the Redeemer statue. It was also host to the 2014 World Cup and the 2016 Olympics.

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**TRANSPORT HUB**: Rio is home to five ports and three airports which position it at the centre of international transportation routes. The main airport in Rio averages 15-16 million passengers a year!

# WHY HAS RIO GROWN?

The growing importance of Rio since the 1950s has made it an attractive urban location for rural-urban migration. This is due to its position as a centre of finance, industry and transport on a global scale — all of which attract prospective migrants from across South Omerica but there are other reasons that attract from around the world. These include:

- Portuguese is the common LONGUOGE of Rio which means that it *attracts migrants from HICs such as Portugal*
- Historically, Brazil was a PORTUGUESE COLONY and the migratory route is still strong together due to this.
- Economically, Rio is part of a newly emerging market which means there is a wealth of OPPORTUNITY. This can be appealing even to those in HICs because it presents them with the chance to utilise skill sets no longer needed in HICs. This attracts workers from nations like the USQ and UK.
- On expanding economy requires **INVESTMENT** which attracts business interests from other nations as they are hoping to profit from the growth in Rio. *This attracts migrants from South Korea and China*

It is important to also point out that the various different ethnic groups that have, and continue to, migrant to Rio give it a unique character. This can directly impact art, culture, architecture, language and music amongst many other things.



Q short video by Vox showing inside the Rocinha favela

PRACTICE QUESTION I: EXPLAIN HOW MIGRATION INTO RIO CAN AFFECT THE CHARACTER OF THE CITY. (4 MARKS)

PRACTICE QUESTION 2: RIO DE JANEIRO IS WITHIN BRAZIL WHICH IS A NEE EXPLAIN WHY A GROWING PERCENTAGE OF BRAZILIANS WILL LIVE IN URBAN AREAS LIKE RIO. (4 MARKS)



THE CHALLENGES OF RIO HEOLTHCORE: In 2013, only 55% of the city had a SOLUTION: The authorities tried to improve healthcare in the favela of Santa local family health clinic. Budget shortfalls consistently Marta which was located on a steep hillside and 13km from the nearest hospital. affect the public healthcare system, especially for Doctors took a health kit into homes & were able to detect twenty different pregnant women and the elderly in the West Zone. diseases and treat them Infant mortality fell & life expectancy increased. EDUCATION: In Rio, only half of all children continue SOLUTION: The 'Schools of Tomorrow' programme aims to improve the their education beyond the age of 14. Many drop out education of young people in the poor and violent areas of the city. Poor families of school and some get involved in drug trafficking. are also given grants to support their children whilst in school and public funding has been put into supporting free lessons for sports like football and swimming. This is due to shortage of schools, need for children to work, teacher shortages and poor training for There are also practical skills based courses to show them what life can be like teachers. without drugs. Rocinha has also seen a private university opened. WATER: around 12% of Rio's population did not have SOLUTION: Seven new water treatment plants were built between 1998 and access to running water. It is estimated that 37% of 2014, including over 300km of pipes being laid. By 2014, 95% of the water is lost through leaky pipes, fraud and illegal population had a mains water supply access SOLUTION: The new Simplicio hydro-electric complex has increased Rio's supply ENERGY: Many people living in the poorer parts of Rio of electricity by 30%. It took 6 years to build and cost over US\$ 2 billion. de Janeiro get their electricity by illegally tapping into the main supply, which is extremely risky and Furthermore, a new nuclear reactor has been built along with 60km of new dangerous. Blackouts are also common due to demand. power lines \_\_\_\_\_

# RIO'S FORMAL ECONOMY

With the growth of Rio and its economy, various economic opportunities have emerged in the formal ical industries economy. Opproximately 6% of all Brazilians employed are found working in Rio showing the importance of the city to the country. Furthermore, Rio ranks high for income per person due to the varied employment prospects it offers as outlined in the diagram: However, not everyone is included in this boom and has led to two problems in the city that they are working to solve — CRIME and UNEMPLOYMENT.



**UNEMPLOYMENT**: In the favelas, over 20% are unemployed INFORMOL EMPLOYMENT: Those who do work, work for low pay at jobs with irregular hours and lacking formal contracts. Os many as 1.2 million people survive like this

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INCOME DISPORITY: The richest 1/ in Rio earn 12/ of all the income in the city whilst the poorest 50% earn only 13%

CRIME: Violent crime is common in Rio, with street crime occurring in even higher frequency at night. In the favelas, powerful gangs control drug trafficking and other associated crimes.

SOLUTION Education programmes have been setup to reduce youth unemployment including the 'Schools of Tomorrow' programme and practical programmes Free child care is also provided for teenagers to enable them to return to education whilst special courses are available for adults. All this is done to upskill workers so they can gain employment in the FORMOL ECONOMY with higher wages.

SOLUTION: The Pacifying Police Unit (UPPs) were created in 2013 to target drug crimes in the favelas, leading to the police establishing control over Complexo de Olemao and 30 other favelas. Subsequently, crime rates have decline as tourism has increased.

**OIR POLLUTION:** Causing 5,000 deaths a year, exhaust and industrial fumes create dangerous mists.

TROFFIC CONGESTION: Os the most congested city in South Omerica, steep mountains have meant that roads can only exist in certain places or require tunnels. Olso high crime rates have led to more cars to escape the threat

WATER POLLUTION: Guanabara Bay is highly populated along with 55 rivers. Open sewers from the favelas contribute to over 200 tonnes of raw sewage being released into the bay along with 50 tonnes of industrial waste and oil spillages.

WOSTE POLLUTION: Steep hills make it almost impossible for waste collection so much is dumped which causes disease

SOLUTION: Metro sustem has been expanded to go under Guanabara Bay to the South Zone. Some city centre roads have been turned into toll roads to reduce usage and some coast roads have been made one-way during rush hour. This reduces congestion and air pollution.

SOLUTION: Using overseas aid, 12 new sewage works have been built costing US\$68 million. Also, any ships who dispose of oil in the bay are fined. Odditionally, 5km of new sewage pipes have been installed.

SOLUTION: Q new biomass-burning power plant was built near the favela and it can consume 30 tonnes of rubbish a day.

SOCIOL CHOLLENGES

tion (Non-Skill

ECONOMIC CHOLLENGES

ENVIRONMENTAL CHALLENGES

#### FAVELA MANAGEMENT IN RIO

