

ALL YOU NEED TO KNOW ABOUT...

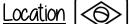
Papeh Two Human Geography Case Studies



MISS MCGOWAN GEOG

ALL YOU NEED TO KNOW ABOUT... King







Located in the Continent of South **Omerica**

In Brazil on the South East coast

Next to the South Otlantic Ocean

North East of Sao Paulo

It is NOT the Capital city of Brazil



Global importance

hrist the Redeemer — world heritage site



5 million visitors visit Rio for carnival

Held international events such as the Olumpics 2016 and the World cup 2014.



Zones

of

Rio



↔T<u>he North Zone</u> Mostly poor neighbourhoods little appeal for tourists

> Rio's international airport and main industrial area.

1000 favelas, located in the North zone

⊕ The West Zone New middle class neighbourhood,

Shopping areas, luxury apartments Stourist facilities

Site for the main Olympic stadium and competitor village for the 2016 aames

The Centro Zone

The headquarters of huge Brazilian companies such as Petrobas

CBD and main shopping area

zone of interest due to its historic and cultural buildings

The South Zone

Richer and prettier part of the city with dozens of hills and mountains

Largest favela Rocinha looks down upon one of Rio's richest areas lpanema beach

Most of the expensive tourist hotels and restaurants are found here

Wealthiest district in South America

Challenaes









In 2013, only 55% of the city had a local family health clinic. Budget shortfalls consistently affect the public healthcare system In Rio only half of all children continue their education beyond the age of 14. Many drop out of school and some get involved in drug trafficking

Oround 12% of Rio's population did not have access to running water. It is estimated that 37% of water is lost through leaky pipes, fraud and illegal access.

Many people living in the poorer parts of Rio de Janeiro get their electricity by illegally tapping into the main supply, which is extremely risky and dangerous.

Opportunities 🚪 🔆 🕜 🥦













The authorities tried to improve healthcare in the favela of Santa Marta Set - It is 13km to the nearest hospital. Doctors took a health kit into homes & were able to detect twenty different diseases and treat them. Infant mortality fell & life expectancy increased.

The schools of tomorrow programme aims to improve education young people in the poor and violent areas of the city. There are also practical skills based courses — it shows them what life can be like without drugs

Seven new water treatment plants were built between 1998 and 2014, and over 300km of pipes were laid By 2014, 95% of the population had a mains water supply.

O new hydro-electric complex which increased Rio's supply of electricity by 30%. It took 6 years to build and cost over US\$ 2 billion.

Favela Bairro Proiect 🚗

In the 1990s, the Favela Bairro Project was set up by city authorities who had set aside £200 million The plan included - replacing wood buildings and those built on dangerous slopes with larger (5x4m) brick houses, widening streets, laujng

pavements, laying water pipes and electricity cables, improving sanitation, providing health and sports facilities, using local residents as labour and provided them with job

ALL YOU NEED TO KNOW ABOUT...The The C's In Nigerian operation operation in more than one country. In Nigeria

Location

The oil industry in Nigeria is Located in the Niger Delta region.



The Niger River, where it flows into the gulf of guinea.

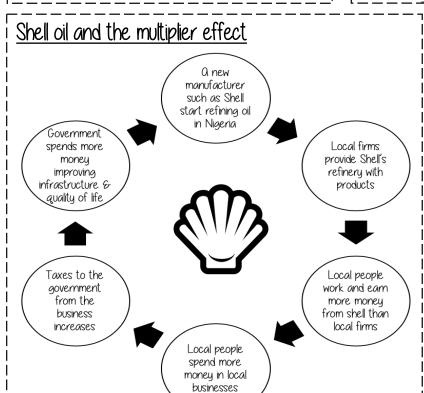
Key facts

The oil boom in Nigeria took off in the 1970s



Companies such as royal Dutch shell (UK,), Chevron (USQ), have interest in oil in Nigeria

The Niger Delta region contains important wetland and coastal ecosystems.



Processes

The companies erected drilling platforms on the oil and gas fields around the Niger Delta



The platforms are linked by pipelines to export terminals in the gulf of Guinea



Ot the export terminal the crude oil is piped onto tankers





The oil is shipped to Europe and the USA where it is refined into petrol and other oil products

<u>Odvantages of shell oil</u>







Shell provides direct employment for 65000 Niaerian workers and a further 250000 jobs in related industries

Shell has invested huge amounts of money and expertise into extracting oil in the Niger Delta

The managers of shell bring knowledge and expertise to

Shell has supported the growth of Nigeria's energy sector through investment

In 2018, approximately \$5.9 million was invested in educational scholarships in Nigeria

Shell oil currently supports 27 health facilities in the Niger Delta, including three new ones built in 2009

Disadvantages of shell oil ___





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.

Frequent oil flares send toxic fumes into the air.

Poverty is increased due to pollution.

Rumours that Shell fund militant groups who try to disrupt oil supplies.

The pollution reduces fishing yields as fish die in oil spills Oil theft and sabotage are big problems. This reduces oil production and costs TNCs and the Nigerian government billions of dollars every year

Oil spills from leaking pipelines damage farmland so crops no longer grow

ALL YOU NEED TO KNOW ABOUT... The special corporation operating in more than one country? In Brazil

Location (< The oil industry in Brazil is mainly located on the East Coast Many plants are in the Otlantic

Key facts

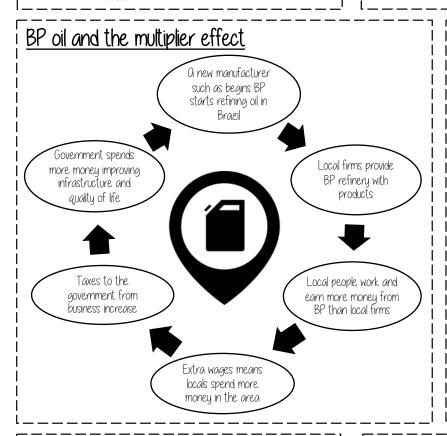
The oil boom in Brazil took off in the 1950s





Brazil is the worlds 12th largest oil producer

Companies such as Chevron (USQ) BP (UK) and Petrobas (Brazil) all have oil plants in the country



Processes

The companies erected drilling platforms on the oil and aas fields around the Rio and Sao Paulo



The platforms are linked by pipelines to export terminals in the gulf of Mexico



Ot the export terminal the crude oil is piped onto tankers





The oil is shipped to Europe and the USA where it is refined into petrol and other oil products

<u>Odvantages of BP oil</u>







BP recruits 7000 employees across 15 states

Depending on the potential impacts identified, BP design environmental protection plans to put in place prevention measures

BP have recently announced plans to open 11 renewable biofuel sites in Brazil

BP Brazil invests in the training and development of locals

Disadvantages of BP oil





In November 2011, 32,00-52,000 litres of oil spilled into the South Otlantic Ocean off to coast of Rio

Higher paid management jobs are often held by foreign nationals.

Most of the profit that BP makes goes back to the UK rather than benefiting the Brazil. This is called economic leakage.

ALL YOU NEED TO KNOW ABOUT...Tourism In Jamaica



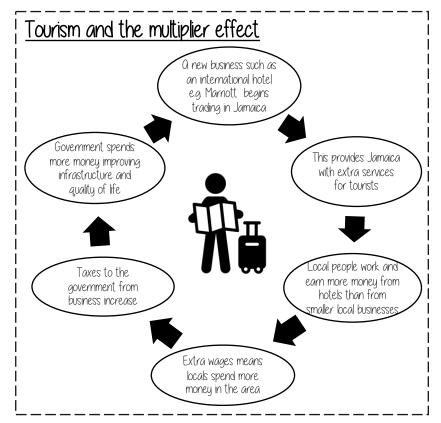
Main tourist attractions



Beach resorts at Nearil Blue Mountains National park Great huts eco resort Deep sea fishing at Port Ontonio Caving at Cockpit county







Positives of tourism in Jamaica



Cruise ship visitors of which there are 25 million spend an average \$70 per day.

Income from tourism is \$2 billion each year

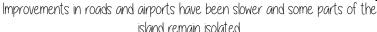
Tourism is the main source of employment in Jamaica It provides jobs for 200,000 people either directly in hotels, transport and tourist attractions or indirectly in shops & manufacturing Tourism has led to a high level of investment on the north coast where much of the country's tourism is centred

New port and cruise liner facilities have been built at Trelawney together with new hotel accommodation

In 2014 tourism contributed 24 per cent of Jamaica's GDP- one of the highest proportions of any country in the world. This is expected to rise to 32 per cent by 2024

Negatives of tourism in Jamaica





Mass tourism can create environmental problems such as footpath erosion, excessive waste and harmful emissions

Large numbers of people live nearby tourist areas in poor housing with limited food supply and inadequate access to fresh water, health care and education There has been mass migration from inland Jamaica due to their being a lack of jobs in these areas

Many of the jobs created are seasonal, so people can become unemployed Local employees are paid low wages, whereas managers from other countries tend to earn more

Land for the massive hotels takes away land from famers

Ecotourism & community tourism





Tourists stay with locals in their homes, directly benefitting locals, and ecotourism.

There are also ecotourist lodges along the coastline. The features of these lodges include an approach to low or zero waste, solar panels to produce power very low visitor numbers (many resorts have less than 16 lodges or huts) and recycling of water

ALL YOU NEED TO KNOW ABOUT... Bristol



National Importance | Global Importance

Two universities — attracts students from around the UK Two cathedrals — Bristol and Clifton Located on the M4 corridor with good road and rail links to

London





The largest concentration of silicon chip manufacture outside California Oround 700,000 cars from Japan Germany and Korea are imported to Bristol's docks each year Bristol airports links the city to major European centres

Positives and Negatives of migration to Bristol



Positive impacts



Mainly young people help balance an aging population Hard working, motivated workforce Contributing to the local and national economy



Negative impacts 🕳 🚟 🗖



Pressures on housing and employment The need to provide education for children whose language is not English Challenge of integration within community

Challenges (2)





Filwood (south of Bristol) is in the top 10 / of the most socially deprived areas in the countru

In Filwood in 2013 only 36% of students got top grades at GCSE, including English and Maths compared to 94% in Stoke Bishop

Social opportunities 😝



Youthful population means there is a range of bars and nightclubs

Sport — Bristol has two professional soccer teams — City and Rovers and a rugby union team - all teams are developing their stadiums to provide a range of leisure and conference facilities

Shopping — The city centre had become outdated and people had begun shopping in the out of town retail park at Cribbs Causeway.

Economic opportunities (;)



There are 50 micro-electronic and silicon design businesses in Bristol The following factors attract hightech businesses to Bristol: a government grant of £100 million

Oardman Onimations - based in Bristol The studio has been well known for its films using stopmotion clay animation techniques e.g. Wallace and Gromit

Environmental opportunities



2015 Bristol awarded European Green Capital with a plan to achieve the following by 2020

Bristol plans to develop an integrated transport system linking different forms of public transport.. The aim is to get people to travel using public transport instead of cars — reducing congestion **Urban greening** — 1/3 of Bristol's is open space and more than 90% of people love within 350km of parkland and waterways.

Environmental challenges



Dereliction — Changes in the industry in Bristol have led to many industrial buildings becoming derelict.

Ortists wanted to improve the areas through public action and community art.

Waste disposal — The city produces half a million tonnes of waste per year. The local government are reducing the amount of waste that has to be sent to landfill and reducing the amount of waste generated per household by 15/

Temple Quarter regeneration .





New bridge built across the River Ovon to the site of the former diesel depot This gives access to the New Bristol Orena (to be used for sporting events with up to 12,000 spectators)

Improved access in and around Bristol — Improvements to Temple Meads station to encourage more people to travel by train

Improved road layout with links to the rapid transport network and the Bristol-Bath cucle network

Enterprise zone status -240,000m² of either new or refurbished buildings, creating offices, homes and shops. The target is to create 4000 jobs by 2020 and 17000 by 2037 eg Brunel's engine shed - 0 £17 million innovation centre is being created — home to high-tech, creative and low carbon sector companies.

ALL YOU NEED TO KNOW ABOUT.

Location



World Head quarters in Rocester, Staffordshire in the UK

Obout 20 miles East of Stoke-On-Trent

about 25 miles West of Derby



Key facts

22 plants in 4 continents



Started in 1945- I man in a lock-up garage in Uttoxeter (Joseph Cyril Bamford)

Now employs over 15,000 people and makes 279 different machines

How is JCB being sustainable





O 24-acre lake, containing 27 million gallons of water was dug out in 1968. Rare orchids grow on the banks of the lake. It also has substantial fish stocks of Roach, Bream, Carp, Perch and Pike in the lake and locals can be issued with fishing permits Sir Onthony Bamford, the current chairman is committed to encouraging conservation

By 2010, JCB had seen a 20% reduction in direct greenhouse gas emissions from gas and electricity, as a direct result of the actions taken - saving over 7,000 CO2 tonnes. This helped JCB achieve the Carbon Trust Standard - an industry first." — JCB 2019

Four of the sites JCB uses no longer send any waste directly to landfill and at their other facilities they continue to seek recycling routes for waste for currently does not have a recycling solution

JCB are now Re-using where possible by-products of the manufacturing process. For example, surplus paint goes into making house bricks, and incoming packaging is used as external packaging

JCB are introducing initiatives to encourage workers to car share, reducing the impact of our collective journeys to work

JCB are looking at new technologies to move away from solvents in their processes.

How is JCB not being sustainable





JCB claim they have not sent any waste to landfill since 2013 however in small print on their website they state this does not include both metal and hazardous waste.

JCB machines have always been famous for their iconic yellow colouring. Over the years, some of the environmental hazards associated including to the environment and human health

Even though JCBs 24-acre lake is now beneficial for the environment before it was created there was a natural ecosystem already 1 existing and this was destroyed to make way for the lake.

ALL YOU NEED TO KNOW ABOUT... The North-South Divide

<u>Location</u>

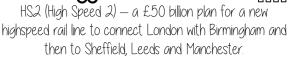
The North is major cities such as Birminaham, Manchester, Hull, Newcastle, Glasgow and Edinburgh

The South is major cities such as Leicester, Lincoln, Gloucester and London



HS2





It may then be extended to Newcastle and into Scotland The scheme is due to start in 2017 for completion in 2033. It will create thousands of jobs in the Midlands and North of **Enaland**

It is estimated that HS2 will help generate £40 billion for the UK economy.

Local enterprise partnerships

Voluntary partnerships between local authorities and businesses. There are currently 39 LEPs in England. Their aim is to identify business needs in the local areas and encourage companies to invest. In this way jobs will be created boosting the local economy

The Lancashire LEP will promote new businesses and create 50 000 new jobs by 2023.

In 2013 a Business Growth Hub was established to support small and medium-sized businesses.

£20 million of transport improvements are planned in cities such as Preston and Blackburn

a £62 million BT investment will extend superfast broadband across 97/ of the region.

Key statistics





Life	expectancy
------	------------

Liverpool (N)	75.7
Cambridge (S)	79.5

Overage house price

North	£137,000
South	£265, 000

Government spending per person

London	£9176	
Yorkshire	£7623	
Overage pay		
North	24, 000	
South	28, 000	
✓ in poverty		

North	18
South	21

Enterprise Zones



Since 2011, 24 new Enterprise Zones have been created Their aim is to encourage the establishment of new businesses and new jobs in areas where there were no existing businesses. The government support businesses in Enterprise Zones bu:

Providing a new business rate discount of up to £275 000 over a five year period

-Ensuring the provision of superfast broadband -Financial allowances for plant and machinery -Simpler planning regulations to speed up establishment of

Northern Powerhouses Δ





In 2015 the government launched a new strategy for a 'Northern Powerhouse' to help balance the wealth and influence of London and the South East. This involves developing the economies of the major cities in northern England such as Liverpool and Manchester. Tourism, food and energy are to be developed in rural areas.

ALL YOU NEED TO KNOW ABOUT. Science & Business Parks

<u>Location</u>



They are often found on the edge of cities, like Bristol and Cambridge, where there is good accessibility. Many are located close to universities to attract graduates.



Definitions:





O science park is is a group of science and technical research Centre's located on a single site

O Business park is an area of land occupied by a cluster of

Growth Corridors



<u>Uh's biggest industries</u> }





Research, e.g. universities, NHS, Environment Ogency

Services, e.g. retail, doctors, teachers, engineers

Information technology, e.g. developing software or internet-based business

Finance, e.g. working in banks, giving out loans

Design features





Science and Business Parks are areas of industry that have grown up on Greenfield sites outside of major cities around the world. The land is less costly than in the cities and the access to transport routes is a prime consideration in their location. Often, Science and Business Parks have a large amount of green land to try to make it as pleasant a working environment as possible.

Business Parks also tend to have very close links to a major research institution, probably a university.

Cambridge business park



Cambridge is fast emerging as one of the UK's main hubs for high tech industry.



The business park was opened in 1972 by the university's 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. The MII 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 in Cambridge began as small start-up businesses, formed by university graduates who wanted to stay in the city when they finished their degrees. Some of these business like the biotech company Obcam have grown into successful companies (it is now worth £1 billion, employing 200).

ALL YOU NEED TO KNOW ABOUTFIREIBURG Sustainable city

Definition of sustainability

Meeting the needs of the future without compromising the needs of today

Location

Freiburg is located in South West Germany

O historic jewel in the middle of the Black Forest



Key facts

Population of about 220,000 people.

In 1970 it set the goal of focusing on social, economic and environmental sustainability.

Situated in the heart of the major Baden wine growing region

Social sustainability



There is a focus on providing people with affordable housing

Local people are involved in urban planning at both local and city

level

Sites for building are considered by the local council and interest aroups.

Cycle and walking paths aim to encourage exercise and healthy living.

Economic sustainability



Many jobs have been created in the research and manufacture of solar technology.

More than 10,000 people are employed in 1500 environmental businesses in the city.

The city is a popular place for people to attend conferences on sustainability. This provides jobs for the local people.

Environmental sustainability (







Financial rewards are given to people w ho compost their green waste and use textile nappies.

Local people are encouraged to invest in renewable energy.

The city uses biogas to provide energy for 28,000 homes.

The city has more than 88% of packing waste recycled.

44,000 trees have been planted in parks and streets to provide more green spaces but to also reduce pollution.

Rainwater is retained and reused to reduce the amount of water used.

Traffic management strategies





The city has integrated public transport strategy (ITS) which is updated every ten years.

The tram network is an important part of the ITS, as it provides cheap and accessible public transport.

There are 400km of cycle paths with 9000 parking spaces for bikes.

Oreas of the city have restrictions on car parking spaces. Or car park space in one area cost £20,000.

Successes

Tram journeys have increased by over 25,000 in one year, while car journeys have reduced by nearly 30,000.

ALL YOU NEED TO KNOW ABOUT...

Chambamontera Micro-hydro scheme

MISS MCGOWAN GEOR

Location

Chambamontera is a small Ondean mountain community in the north of Peru.



Key facts

The community is very remote and isolated from the rest of the country

The population of Chambamontera survives largely on subsistence farming (farming for oneself and/or family).

Until recently the community had no electricity to supply power for equipment, lighting or heating.

Funding for the scheme







The scheme was supported by the charity Practical Oction.

The cost was \$5 1000 which was partly funded by Japan but the community had to pay for part of it

The average cost per family was US\$750 which they funded by credit.

High rainfall, steep slopes & fast flowing rivers make this area ideal for exploiting water power as a renewable source of energy.

Odvantages to the scheme



SOCIAL



Local people involved at all stages
Healthcare improved as electricity allows storage of medicines
Electricity for schools

Training of local people to operate the technology gives them skills



ECONOMIC



Cheaper electricity than a large HEP scheme Uses local skills and cheap technology 60% of people said their income had increased



ENVIRONMENTAL



Ovoids flooding large areas, which takes away farmland Ovoids burning wood from local trees for fuel Replaces fossil fuel use

Disadvantages to the scheme



SOCIAL



Poor people have to pay for metered electricity

Some villages have doubled in size, creating population pressures



ECONOMIC



Demand for electricity is variable Initial capital cost is high for a small village; £500 per household Some specialist equipment had to be imported



ENVIRONMENTAL



Small storage dam is needed which alters the flow of the river and spoils the scenery