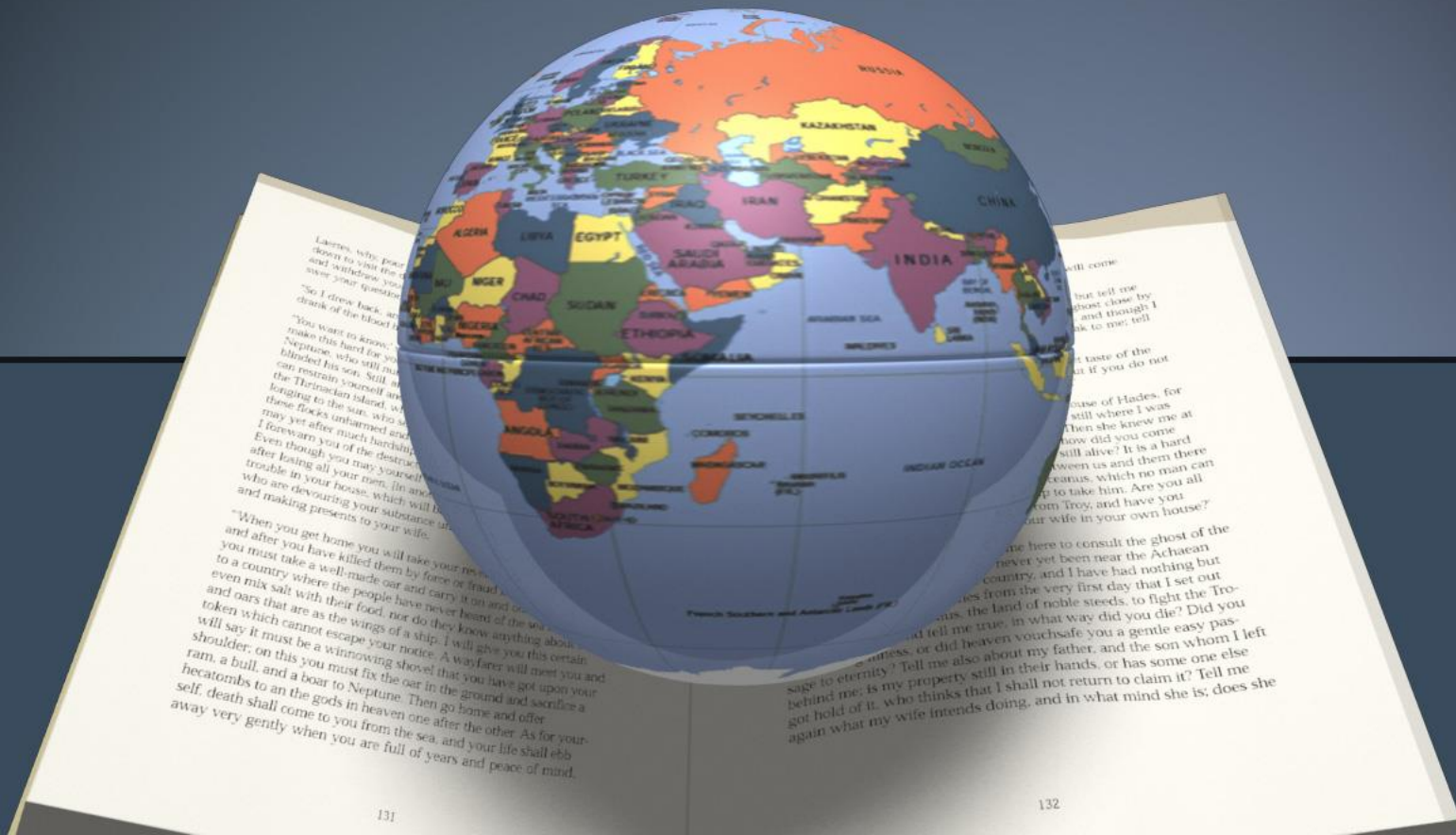


GEOGRAPHY

Revision

Rural and urban settlements





STUDY OF SETTLEMENTS

What is a Settlement?

A grouping of:

- people
- buildings
- communication networks
- activities

Function as a single unified system on a daily basis



How are settlements classified according to size?

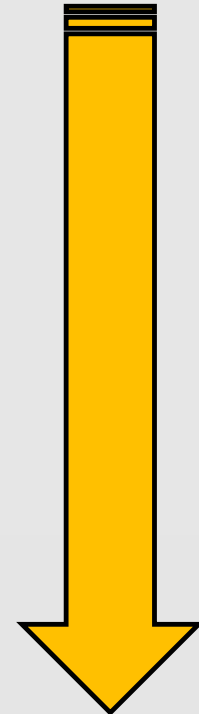
RURAL

- Isolated farmstead
- Hamlet
- Village

URBAN

- Town
- City
- Metropolis
- Conurbation
- Megalopolis

SMALL



LARGE

How do you distinguish between urban and rural settlements?

SETTLEMENTS

RURAL

URBAN



SINGLE FUNCTIONAL

MULTI FUNCTIONAL

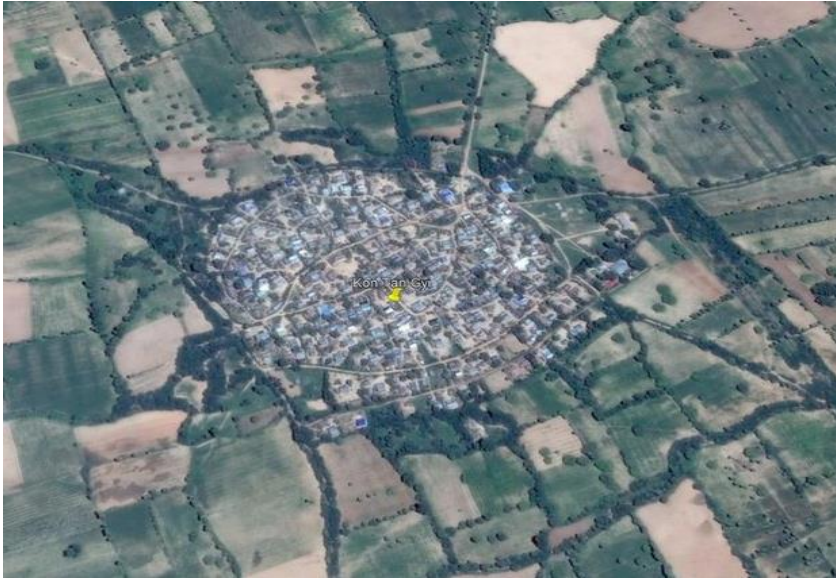
**PRIMARY
ACTIVITIES**

**SECONDARY
ACTIVITIES**

**TERSARY
ACTIVITIES**

Why are dispersed settlements better from an economic point of view?

NUCLEATED



Buildings close together

- **LOOSE** patches of land
- **FOREMAN** manages
- **NO** independent **DECISIONS**
- Lives in **VILLAGE**
- Lots of **TRAVELLING**
- **MEGANIZATION** difficult

DISPERSED



Buildings widely separated

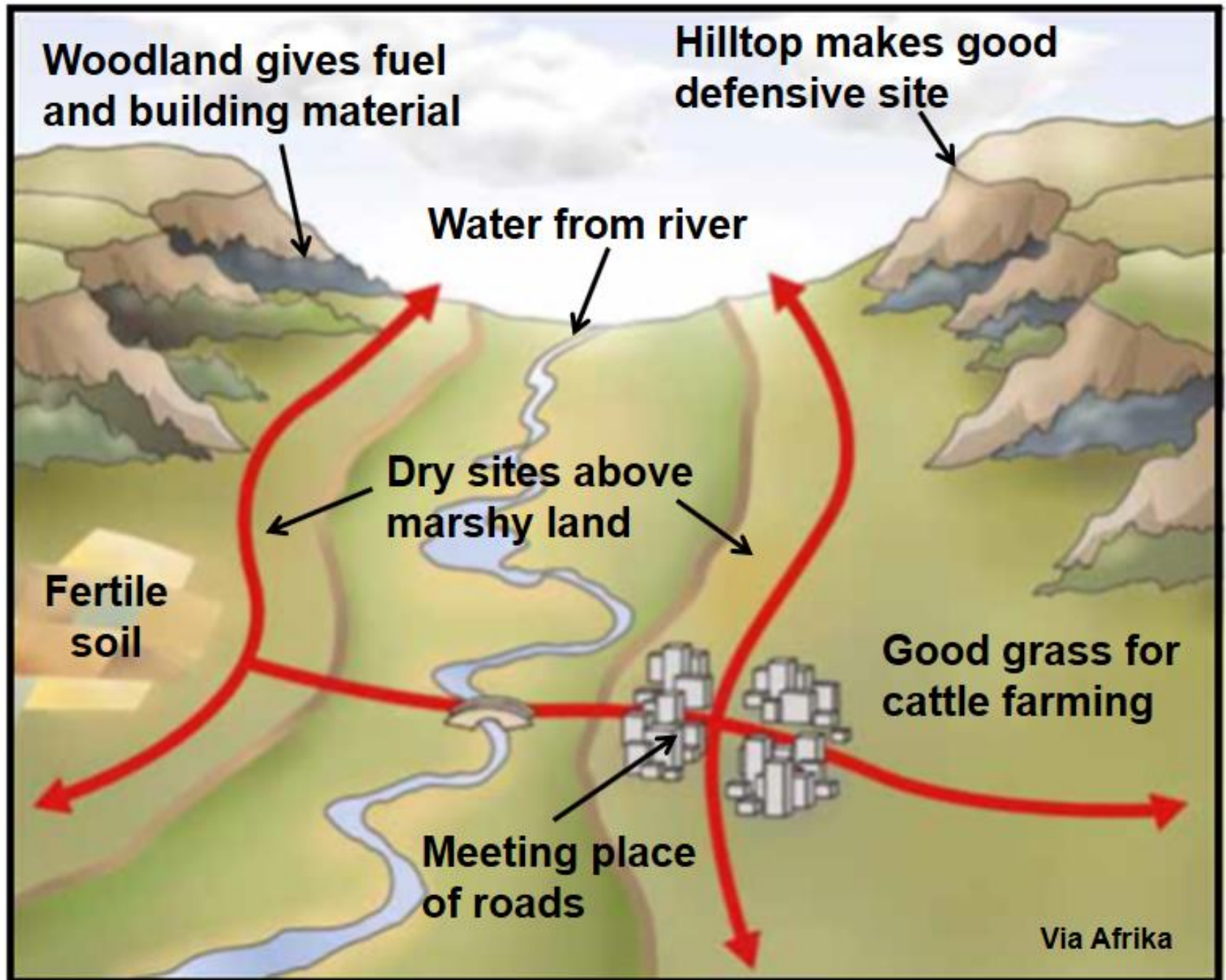
- **LARGE SINGLE** farm
- Manages farm **HIMSELF**
- Independent **DECISIONS**
- Lives on **FARM**
- **No TRAVELLING**
- **MEGANIZATION** easy



RURAL SETTLEMENT

Factors influencing site

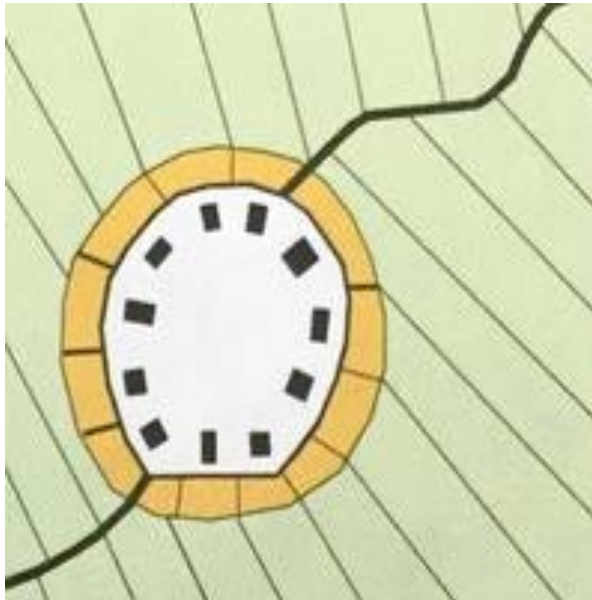
Water
Fertile soil
Fuel
Building material
Face the sun (aspect)



Via Afrika

SHAPE

ROUND



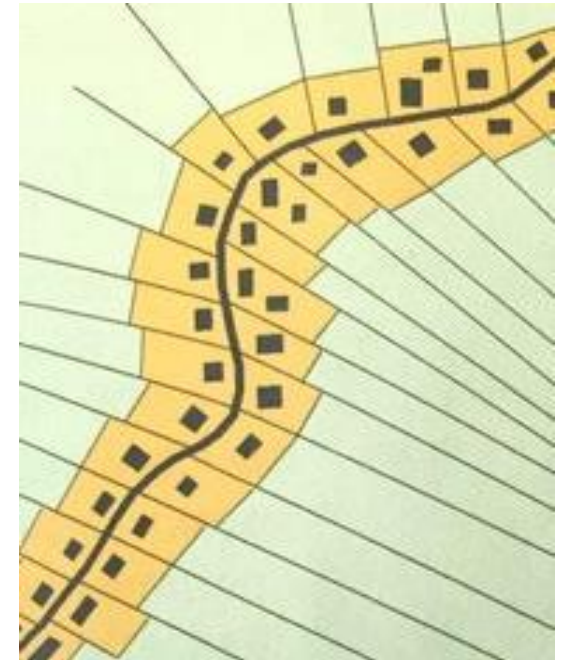
Around central point

CROSSROAD



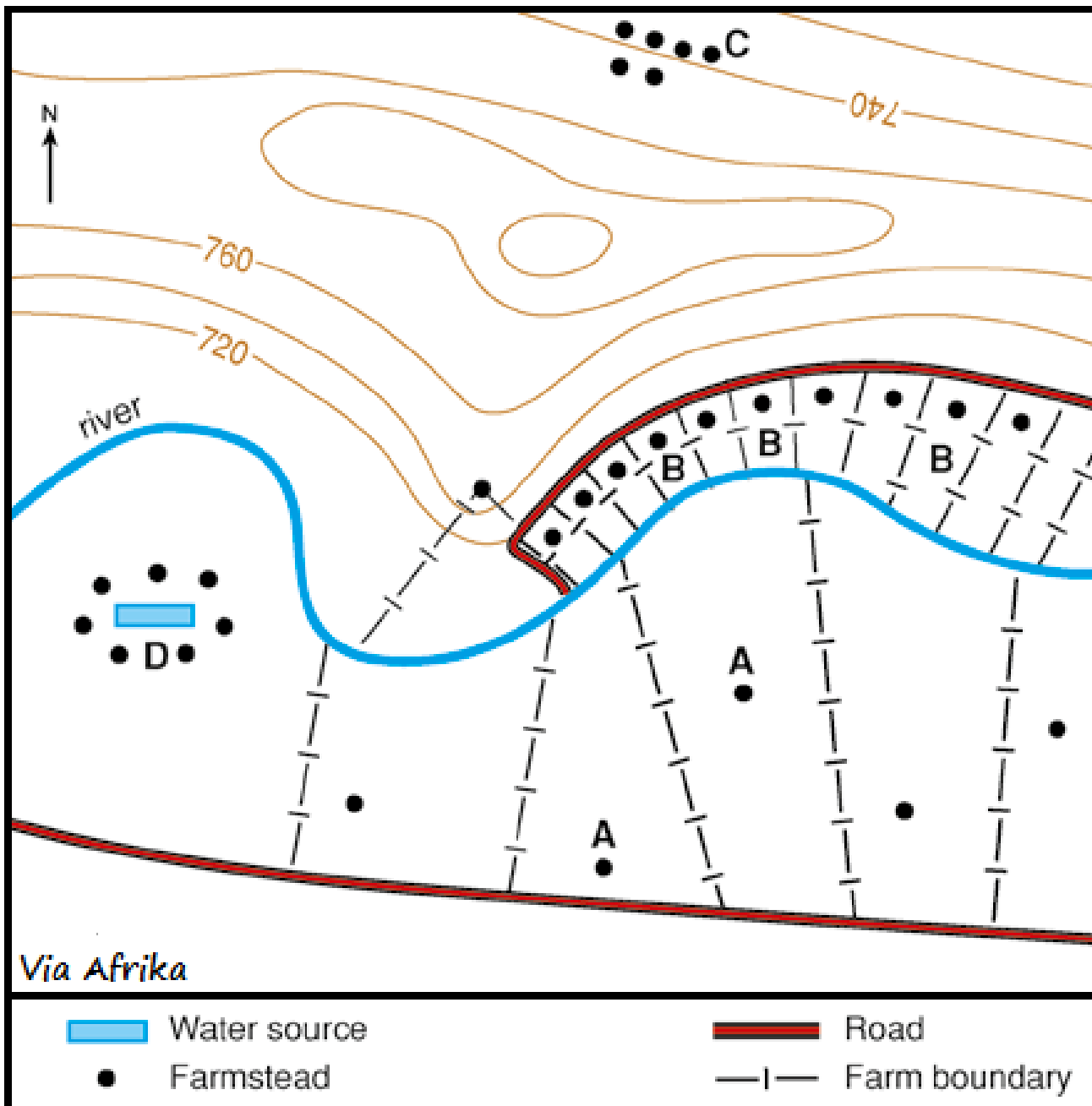
Where roads cross

LINEAR



Along road or river

What do you remember?

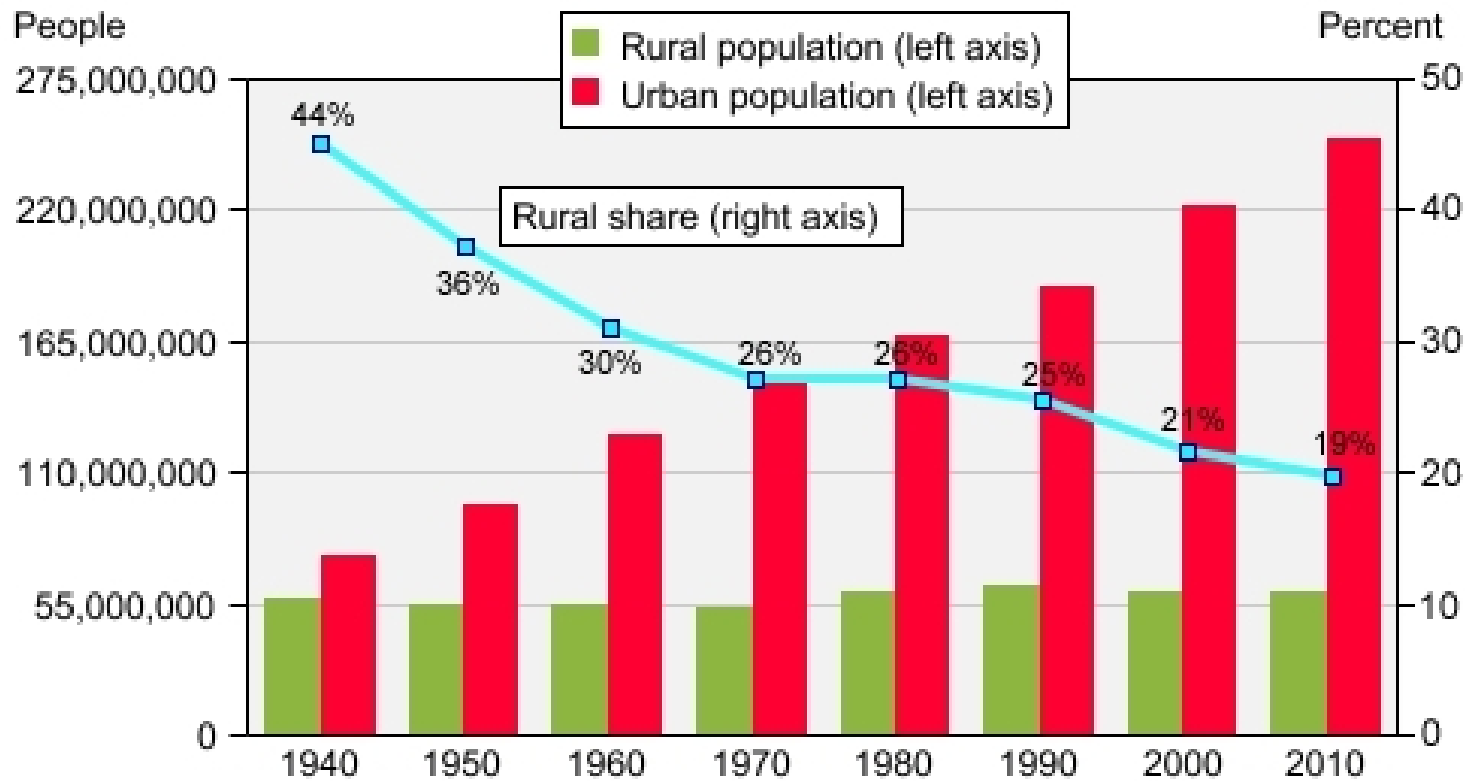


1. What is the pattern of the settlements at D and A?
2. What is the shape of the settlements at B and D?
3. Explain the factor that influenced the shape at B and D.
4. State and explain the climatic factor responsible for the location of settlement C.



RURAL SETTLEMENT ISSUES

RURAL DEPOPULATION



Increase
in urban
population
(red
columns)

Decrease
in % rural
share
(blue line)

WHY?

Rural Depopulation



RURAL-URBAN MIGRATION:
Movement from rural to urban areas



FACTORS

PULL FACTORS

ATTRACT
people to
the cities

Better jobs
Salaries
Education
Medical fac.
Bright lights

PUSH FACTORS

FORCE
people to
the cities

Mechanization
Low salaries
Droughts
Crime
Unemployment



CONSEQUENCES

- Empty farmhouses
- Crime (Farm murders)
- Unemployment
- Few new investments
- Many old people
- Few young men
- Low value of properties
- Shops close
- Empty schools
- Services below standard

WHAT CAN BE DONE?

- Advertise town
 - Recreation
 - Tourism
- Restore buildings
 - Rural schools
- Cheap Indus sites

LAND REFORM

Injustices of Apartheid where people were forcibly removed from their land are addressed

LAND RESTITUTION

To return land to its original owners. It compensates those who lost land during apartheid years.

LAND REDISTRIBUTION

Government buys land and makes it available to the previously disadvantaged people.

LAND TENURE REFORM

To secure the rights of those living on land owned by others. Are protected from eviction.



URBAN SETTLEMENT

FACTORS INFLUENCING SITE AND LOCATION

PHYSICAL FACTORS

- Fresh water
- Underlying rock
- Relief
- Drainage
- Aspect of slope
- Resources

SOCIAL FACTORS

- Transport routes
- Bridging points rivers
- Harbours
- Defensibility
- Building materials
- Food supply

Cape Town was established as a Dutch settlement in 1652. The harbour, available fresh water, mild climate, and well-drained land allowed farming to provide provisions to passing ships.



TYPES OF URBAN SETTLEMENTS ACCORDING TO FUNCTION

1. CENTRAL PLACES

Supplies urban goods and services to surrounding rural areas

Lower order goods and services

- Need often (bread, milk, doctor)
- Smaller threshold population.
- Several shops/services

Higher order goods and services

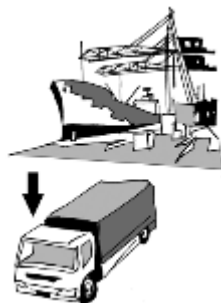
- Need less often (health spa)
- Larger threshold population
- Less shops/services

2. TRADE/TRANSPORT TOWNS OR CITIES

Develop where transport routes meet

Break of bulk

- Transport changes
- eg from sea to land
- Cape Town



Junction

- Intersection of two main transport routes.
- De Aar



Gap

- Point of access at physical barrier (mountain pass)
- Worcester



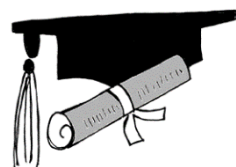
3. SPECIALISED TOWNS OR CITIES

Develop because of one main function in the area

Mining
Welkom



Education
Stellenbosch



Industrial
Secunda



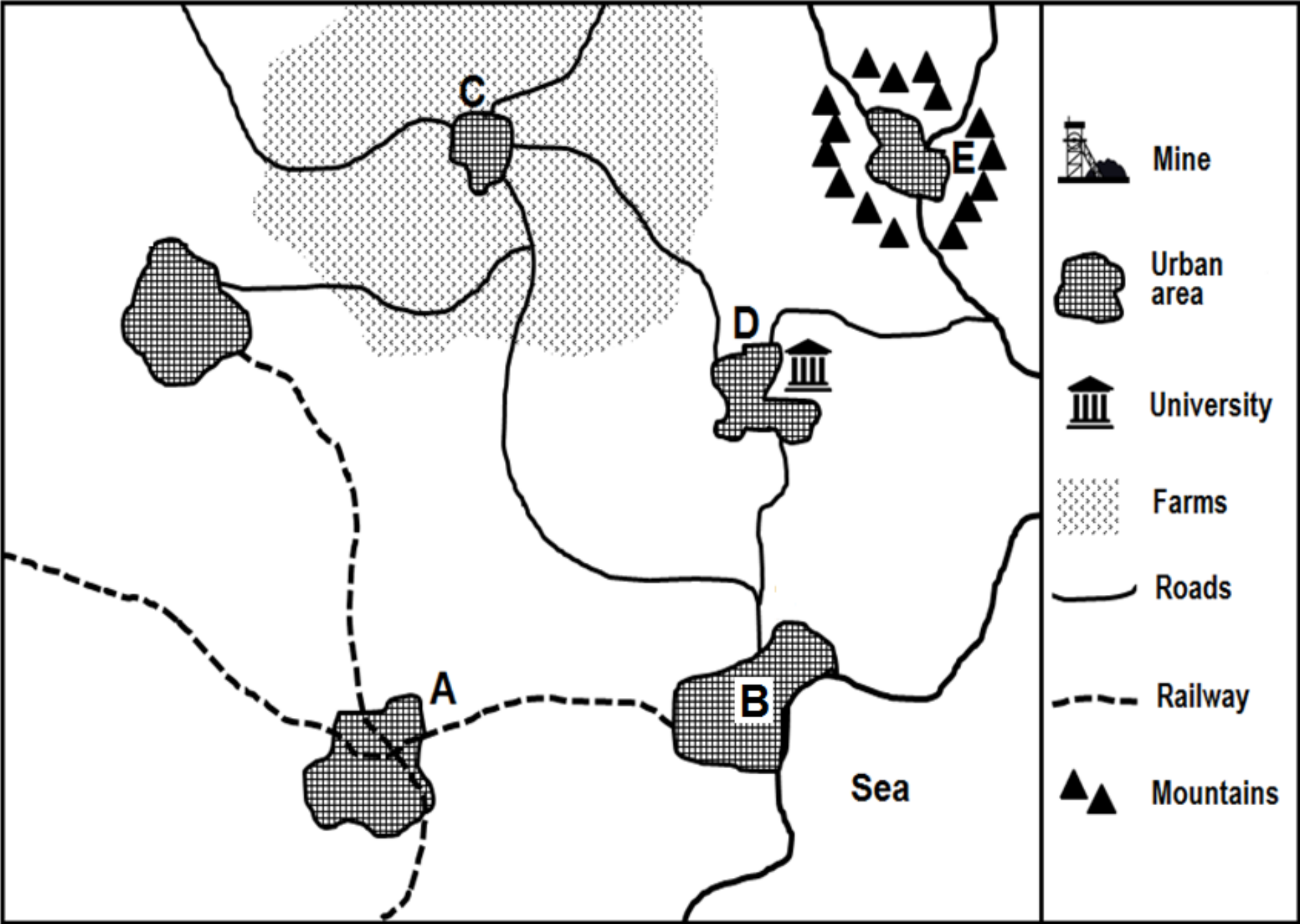
Resort
Margate



Commuter
Soweto



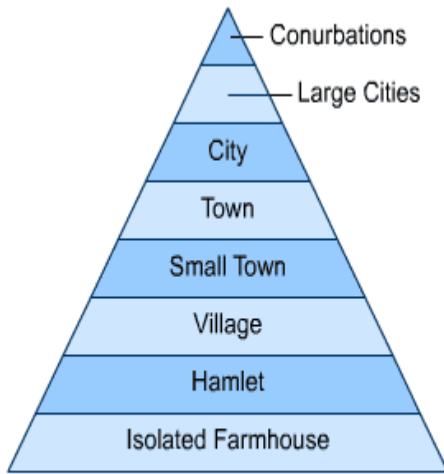
Classify each of the urban settlements A-F on the diagram according to their function





URBAN HIERARCHIES

URBAN HIERARCHIES



The population of each type of settlement increases as the number of settlements of that type decreases.

URBAN HIERARCHY

The ranking of urban areas according to the criteria of size, number of functions and the degree of specialisation of the functions

C O N C E P T S

CENTRAL PLACE

A town that supplies urban functions to the surrounding rural area

SPHERE OF INFLUENCE

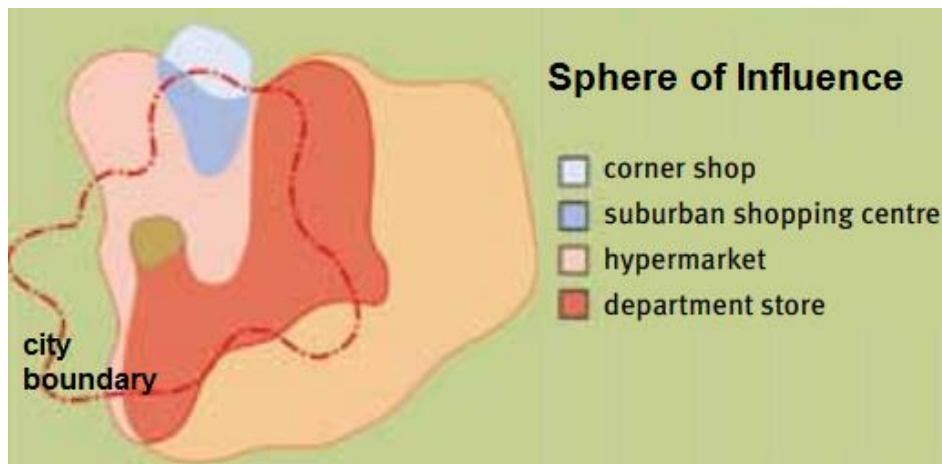
The area served by a central place

THRESHOLD POPULATION

The number of people a function must serve to be profitable

RANGE OF GOODS

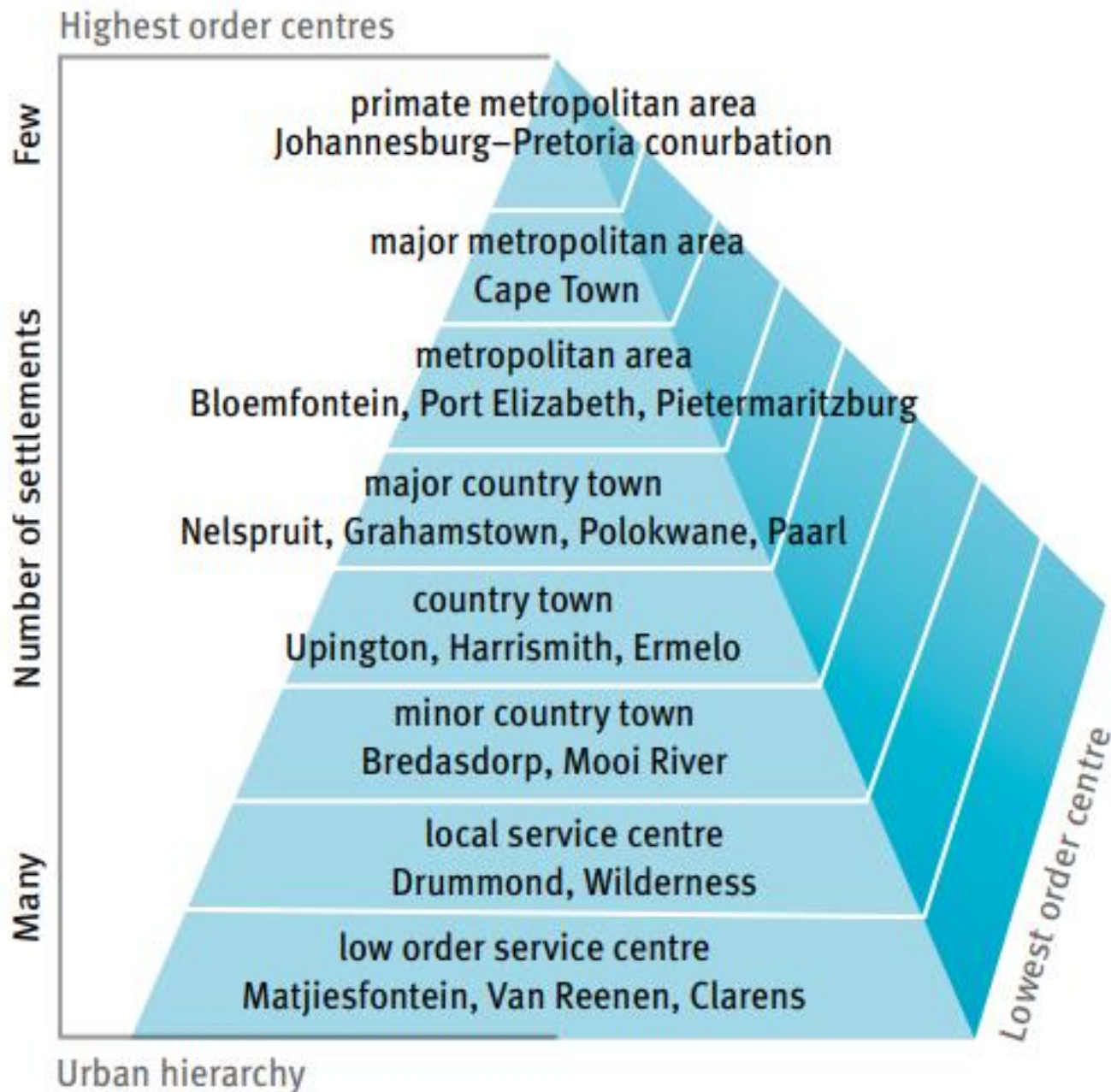
The maximum distance that people are prepared to travel to obtain goods or a service



LOWER- AND HIGHER FUNCTIONS AND SERVICES

	Low order functions and services	High order functions and services
Definition	A function or goods you need to buy often	A function/goods not needed regularly
Functions/services	Less specialised	Highly specialised
Threshold population	Smaller number of people	Larger number of people
Range	Small	Large
Sphere of influence	Small	Large
Distance travelled	Near	Far
Number of shops or services	Many – needed on a regular basis	Few – not needed very often
Examples	Bread, milk, petrol station, bottle store, doctors, mechanics	Lounge suites, cars, computer hardware, health spas, specialist doctors

LOWER- AND HIGHER ORDER CENTRES

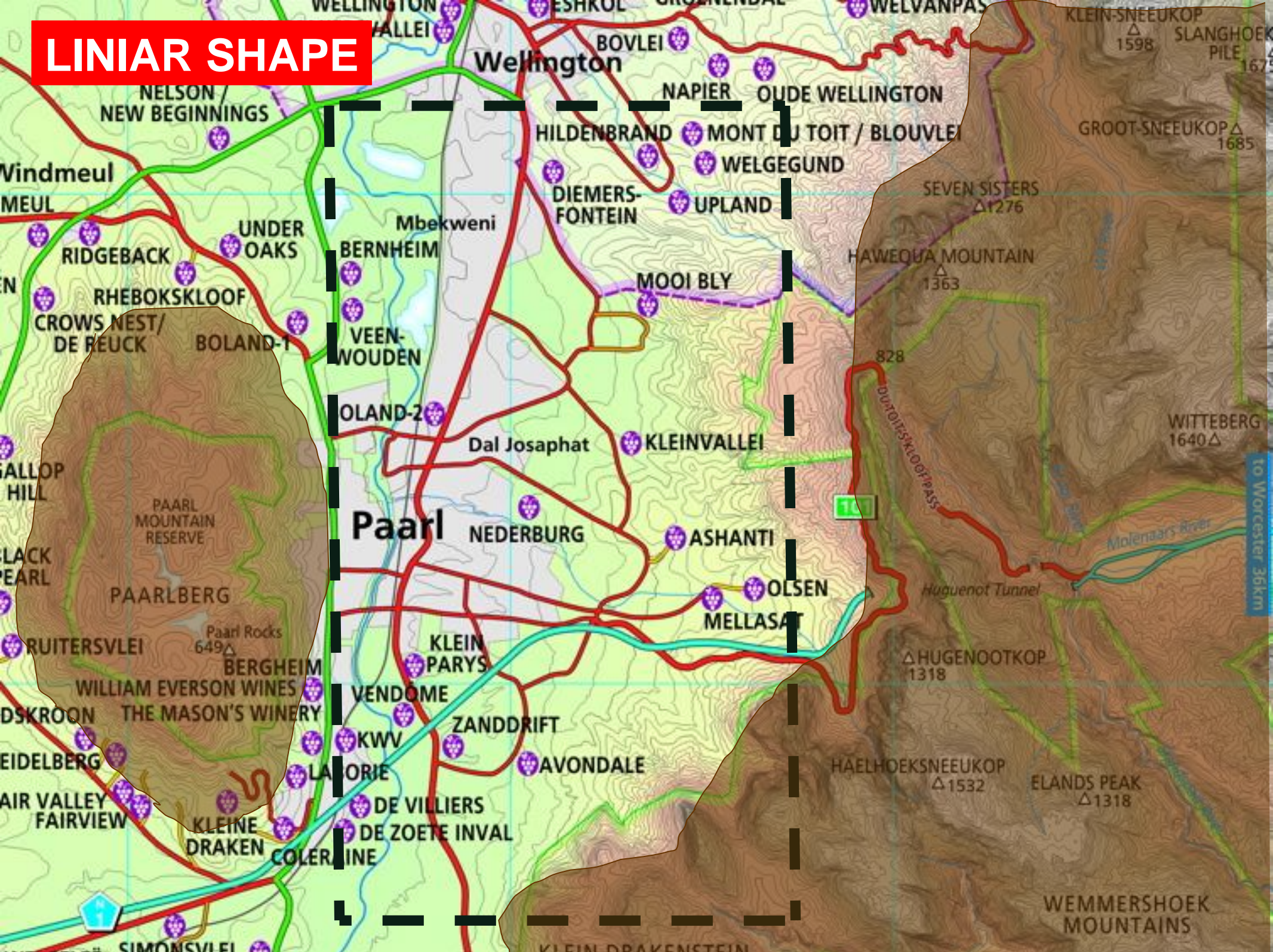


- More lower order centres.
- Few higher order centres
- Position of settlement .determined by number of functions and not the size of the population.



URBAN STRUCTURE AND PATTERNS

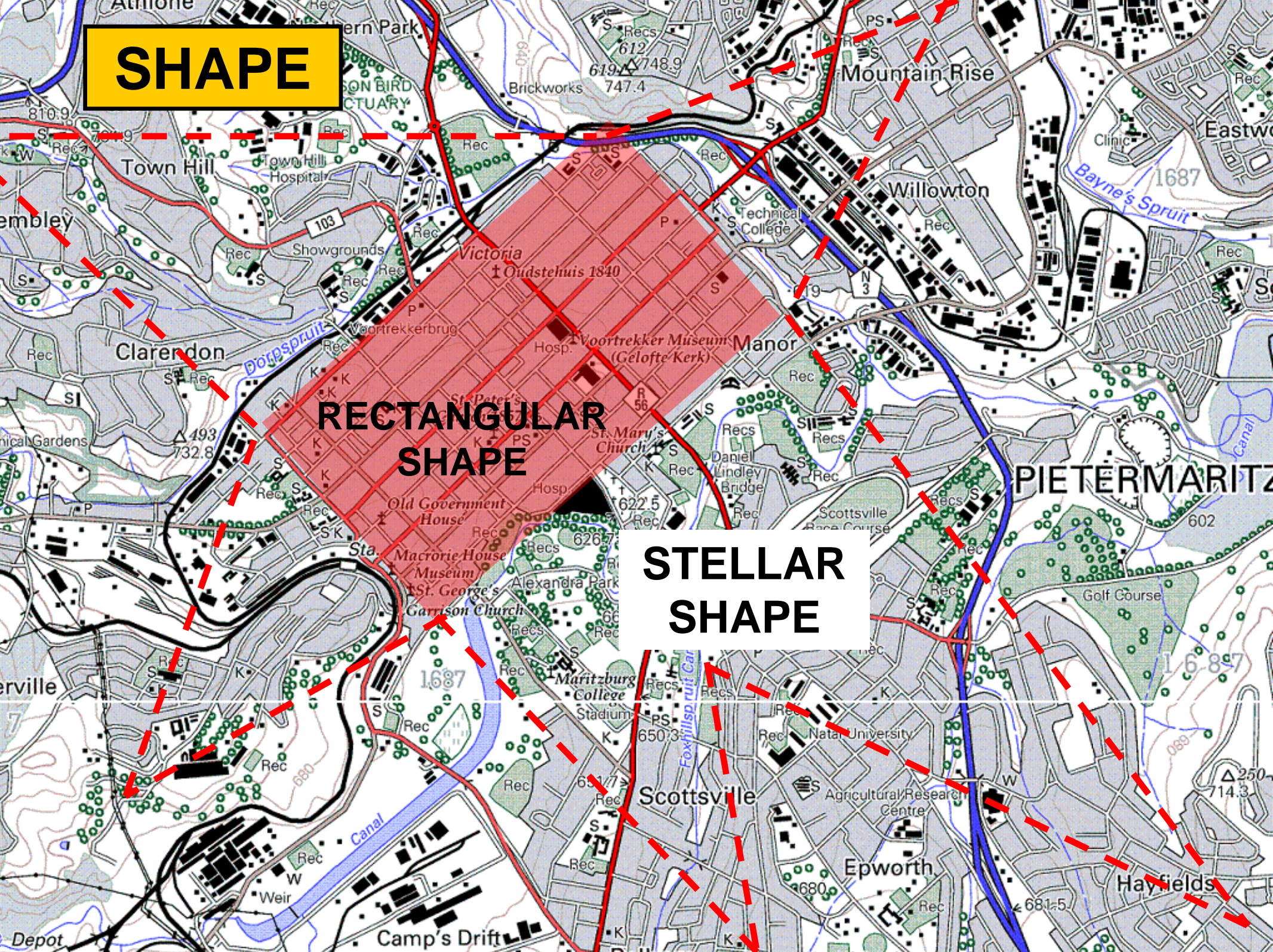
LINIAR SHAPE



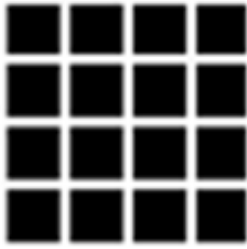


SHAPE

**RECTANGULAR
SHAPE**

**STELLAR
SHAPE**



STREET PATTERNS

Name	Gridiron/Rectangular	Radial	Irregular
			
Characteristics	Roads intersect at right angles	Roads radiate outwards from central point like spider's web	<ul style="list-style-type: none"> • No clear structure • Can be planned or unplanned
Advantages	<ul style="list-style-type: none"> • Easy to plan • Land divided easily • Easy to find way 	<ul style="list-style-type: none"> • Easier flow of traffic • All roads lead to central point 	<ul style="list-style-type: none"> • Improves traffic flow • Fewer intersections • Accommodates topography
Disadvantages	<ul style="list-style-type: none"> • Traffic congestion • Monotonous • Accidents 	<ul style="list-style-type: none"> • Traffic jams • Traffic is slow • Wasted space 	<ul style="list-style-type: none"> • Difficult to plan • Easy to get lost • Not easy to expand or subdivide

STREET PATTERNS

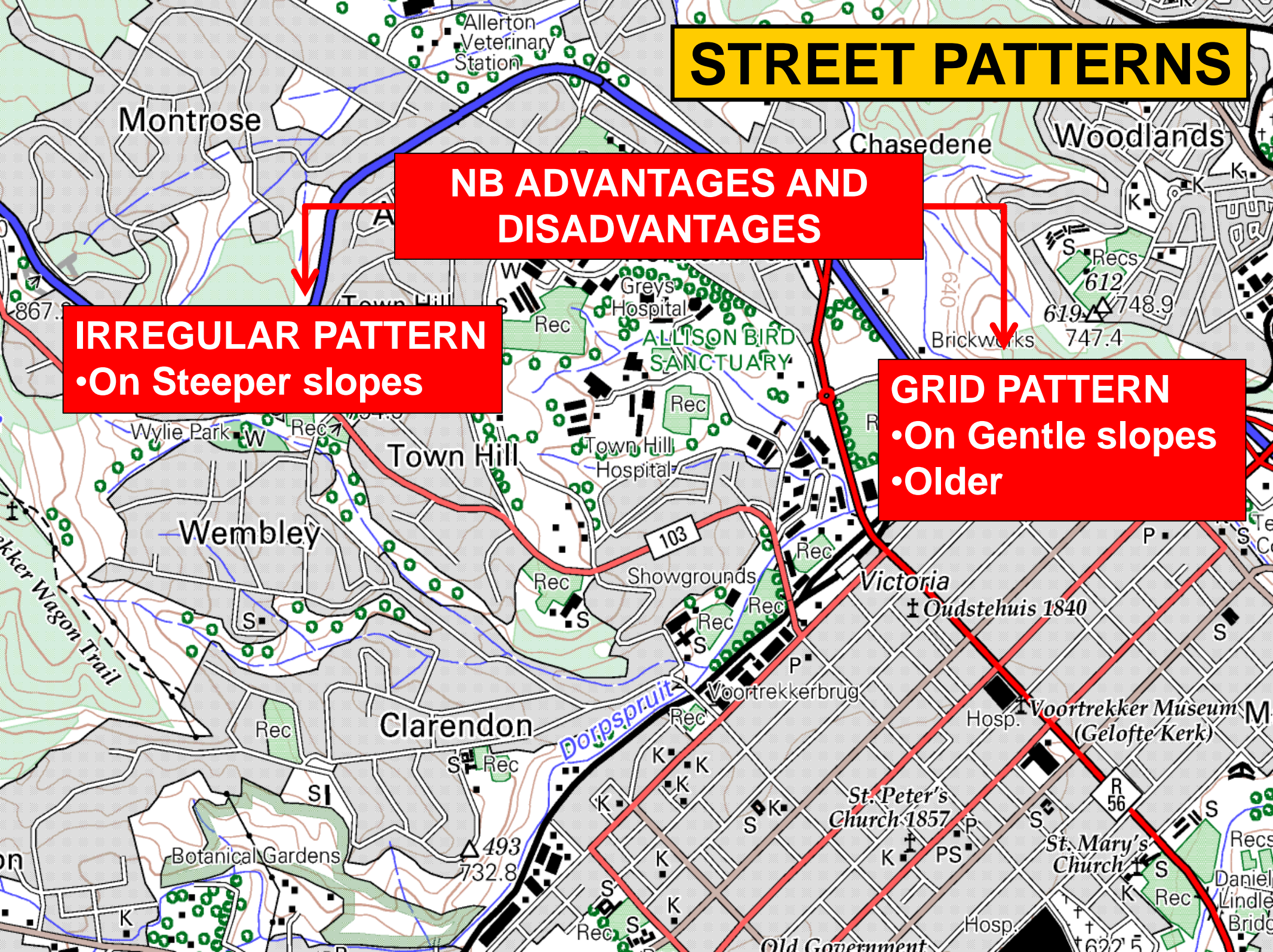
NB ADVANTAGES AND DISADVANTAGES

IRREGULAR PATTERN

- On Steeper slopes

GRID PATTERN

- On Gentle slopes
- Older



Urban Profile

A nighttime photograph of a city skyline, likely New York City, viewed from across a body of water. The sky is a mix of deep blue and orange, suggesting dusk. Several tall skyscrapers are illuminated with lights, and their reflections are visible on the water. In the foreground, a bridge with multiple arches spans the water, and a marina with many small boats is visible on the right side.

The view of an urban area from the side

Urban profile takes note of:

- **The height of the buildings**
- **The density of the buildings**
- **Land value**

Why does the height and density of the buildings decrease as you move further away from the city centre?



- Cheaper land
- Lower density of buildings
- Horizontal buildings
- Industries
- Residential

- Land very expensive
- Competition
- High density of buildings
- Vertical buildings
- Offices
- Commercial

**L
A
N
D

U
S
E

Z
O
N
E
S**



CBD



Industrial



Residential



Commercial



Zone of decay



Rural-urban fringe

Land-use zones **CBD**



Where?	Characteristics
<ul style="list-style-type: none">● Most accessible● Where transport routes meet● In the city centre	<ul style="list-style-type: none">● Highest land values● Highest building density● Tallest buildings● Concentration of shops and offices● High-order commercial functions

Land-use zones

INDUSTRIES



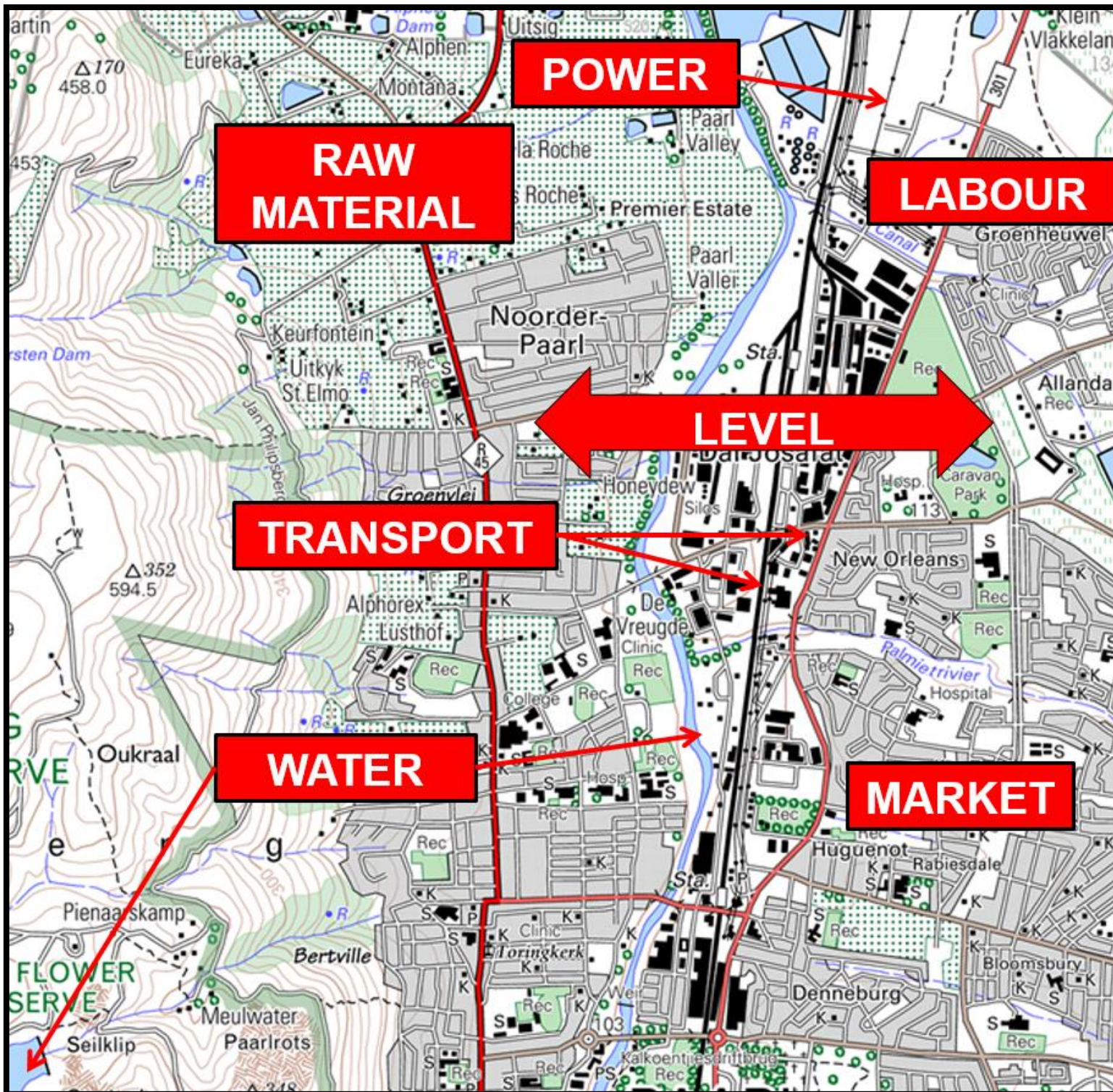
Land use zone		Where?	Characteristics
Industries	(a) Light industry	<ul style="list-style-type: none"> • Often near CBD or residential areas • In planned industrial estates • Near road transport 	<ul style="list-style-type: none"> • Little noise and air pollution • No heavy machinery
	(b) Heavy industry	<ul style="list-style-type: none"> • On outskirts of the city on cheap land • Near major road and rail networks • On flat land • Near water source 	<ul style="list-style-type: none"> • Lots of air and noise pollution • Dangerous

FACTORS INFLUENCING THE LOCATION OF INDUSTRIES

Discuss the factors that influenced the location of industries in Paarl?

FACTORS

- Level
- Raw Material
- Water
- Labour
- Power
- Transport
- Market



Land-use zones **RESIDENTIAL**

Land use zone		Where?	Characteristics
Residential	(a) Middle to high income	<ul style="list-style-type: none"> ● Found away from CBD ● Good view 	<ul style="list-style-type: none"> ● Larger properties ● Good services ● Recreational areas
	(b) Low income	<ul style="list-style-type: none"> ● Closer to CBD 	<ul style="list-style-type: none"> ● Houses close together ● Fewer facilities ● Poor services ● Smaller properties
	(c) Informal settlement	<ul style="list-style-type: none"> ● On the city outskirts 	<ul style="list-style-type: none"> ● Houses built out of plastic, wood, zinc ● Unhealthy conditions ● No service delivery ● Poverty ● Crime ● NB also positive characteristics



Land-use zones **COMMERCIAL**

CBD the commercial heart of the city



Decentralised to shopping malls like Canal Walk



Land-use zones

ZONE OF DECAY / TRANSITION ZONE

Land use zone	Where?	Characteristics
Zone of decay (Transition zone)	<ul style="list-style-type: none">• Just outside the CBD	<ul style="list-style-type: none">• Mixed functions (residential, commercial, light industry)• Decayed buildings• Renewal• Valuable land

HOW MANAGED?

- Renovation
- Renewal
- Reduce housing density





Residential



Commercial



Old buildings

ZONE OF DECAY



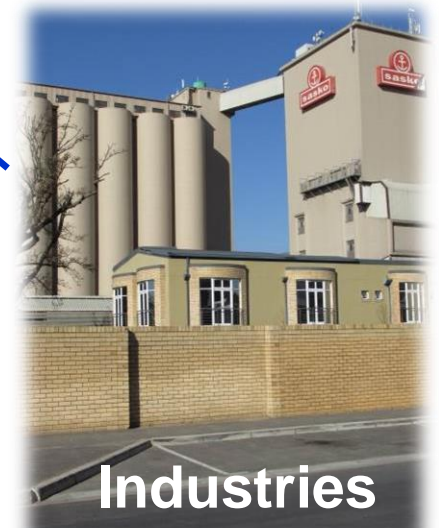
- Mixed functions
- Old buildings
- Renewal



Renewal



Industrial park

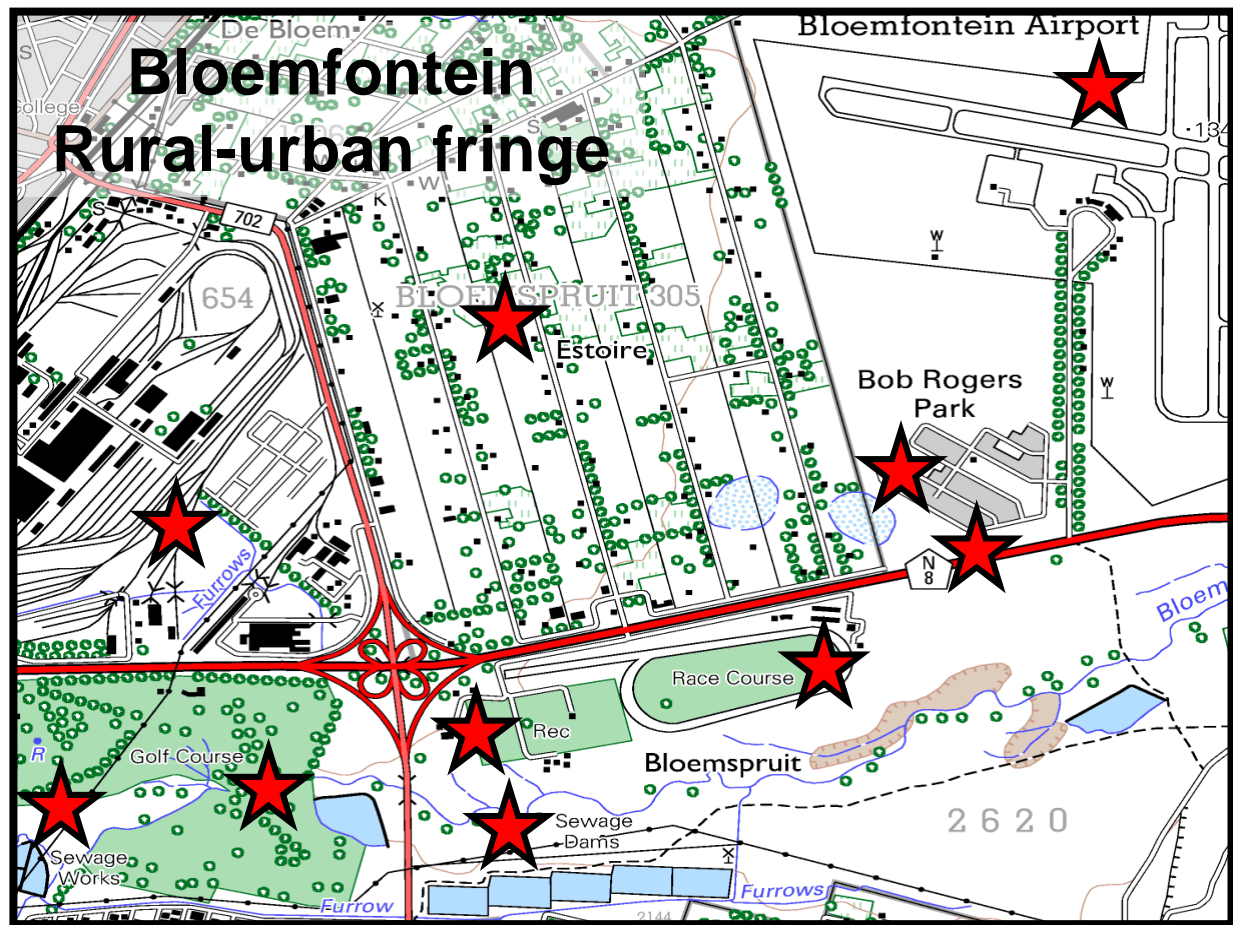


Industries

Land-use zones

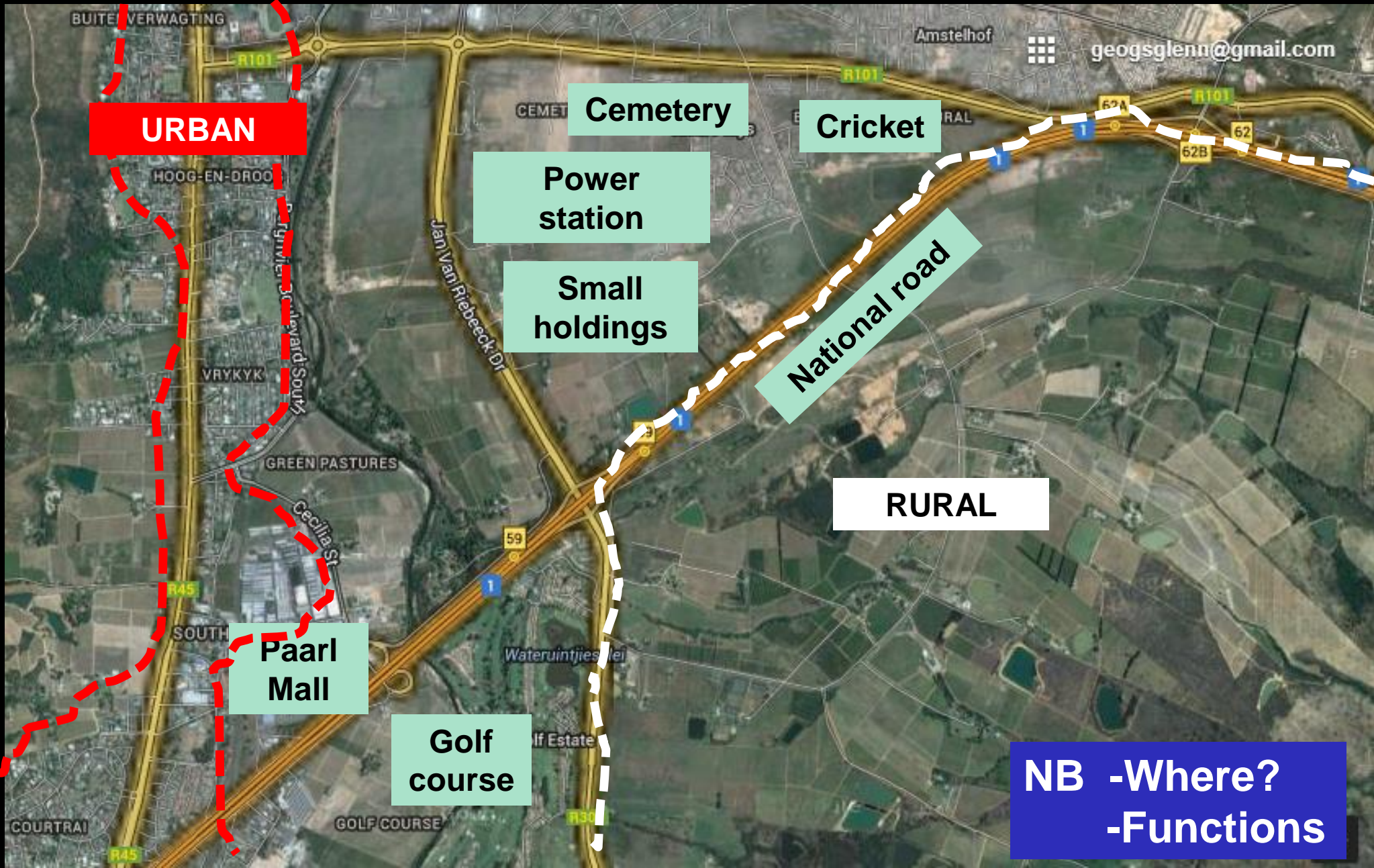
RURAL-URBAN FRINGE

★ Functions in rural-urban fringe



Land use zone	Where?	Characteristics
Rural-urban fringe	<ul style="list-style-type: none"> On edge of urban area 	<ul style="list-style-type: none"> Urban functions invade rural area Both Urban and rural functions Large properties because of cheaper land Plots and small holdings Airports, cemeteries, power stations, golf courses, sewage works

RURAL-URBAN FRINGE OF PAARL



**NB -Where?
-Functions**

Rural-urban fringe

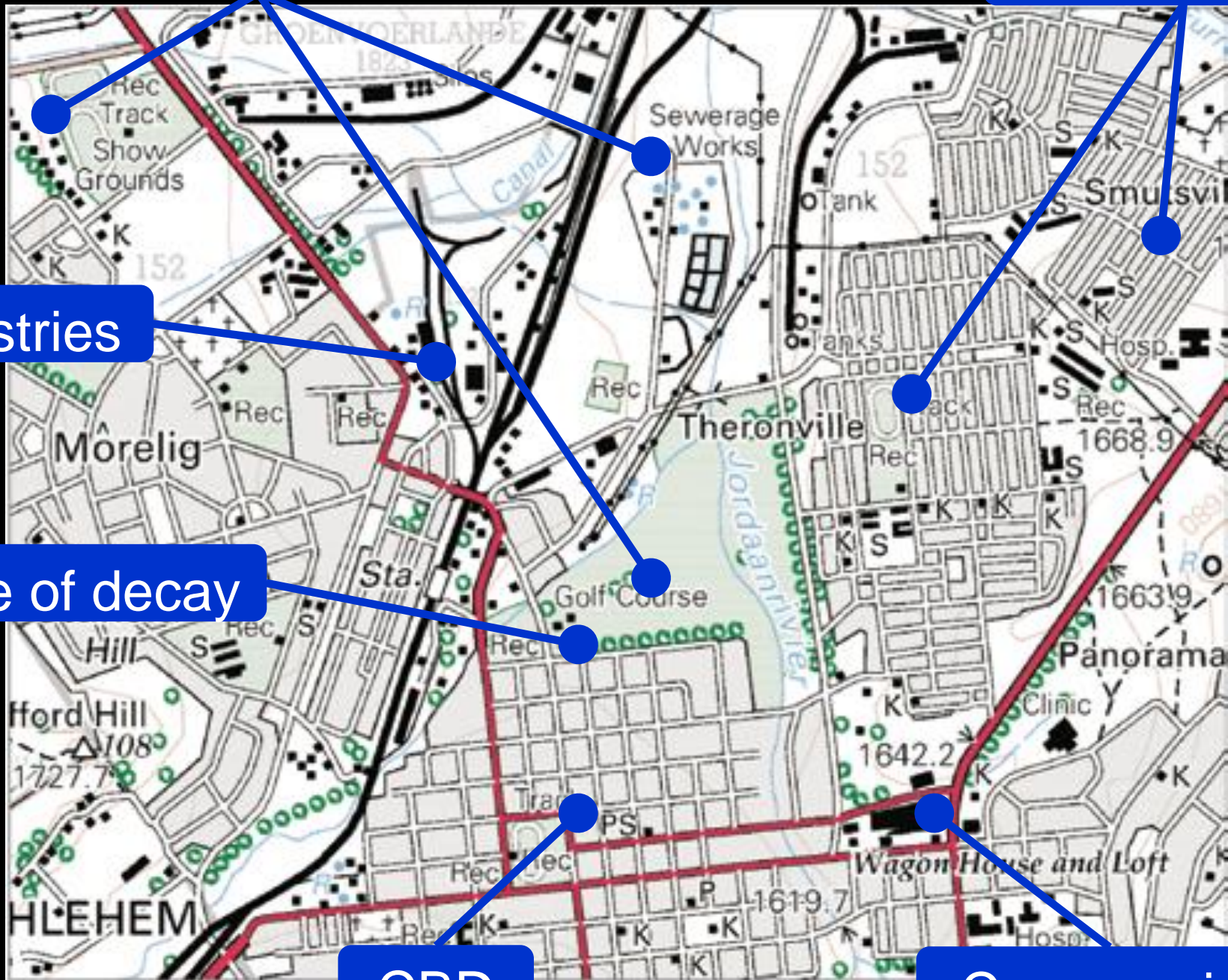
Residential

Industries

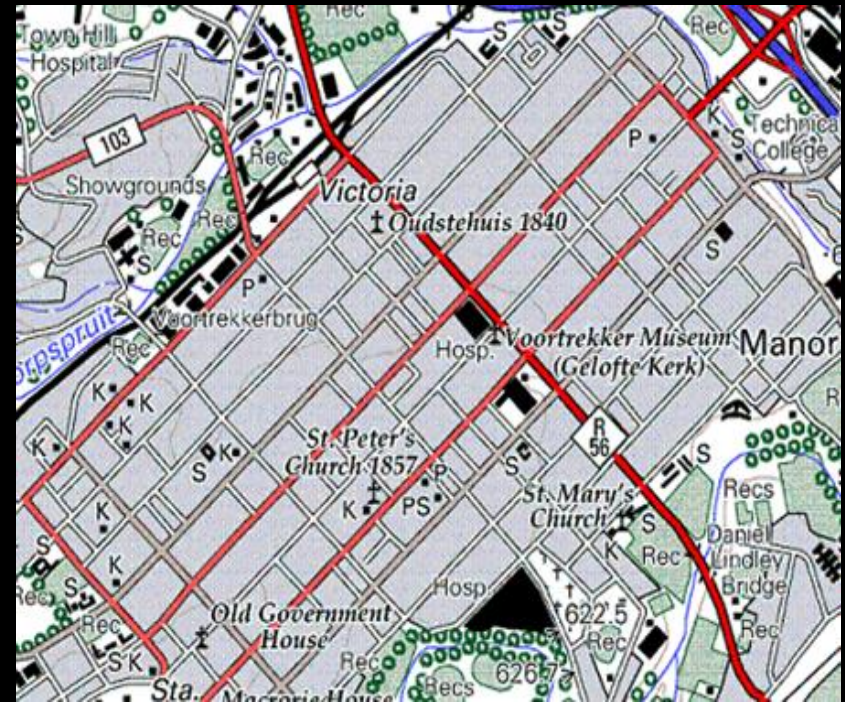
Zone of decay

CBD

Commercial



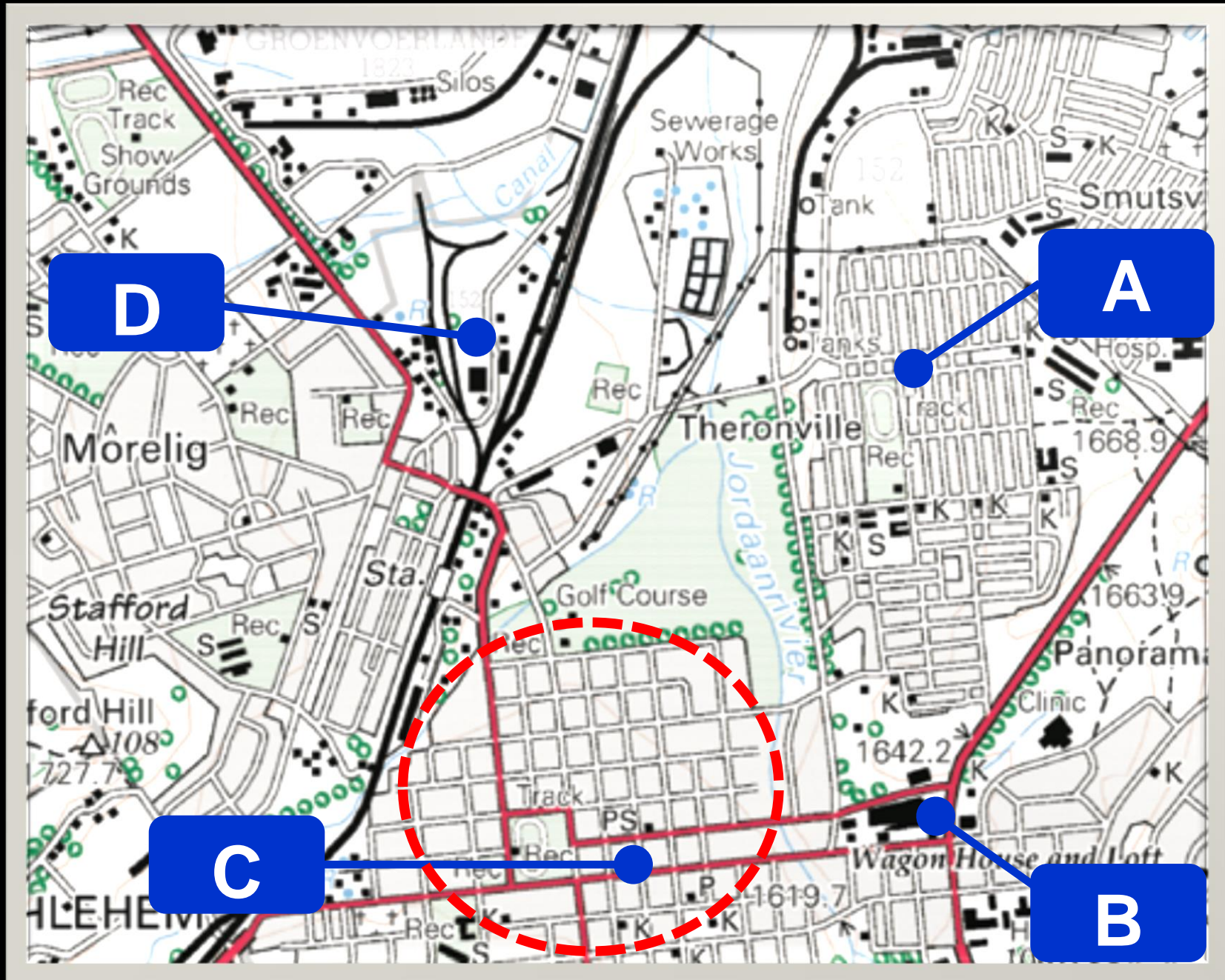
This street pattern is a major cause of traffic congestion.



TRUE

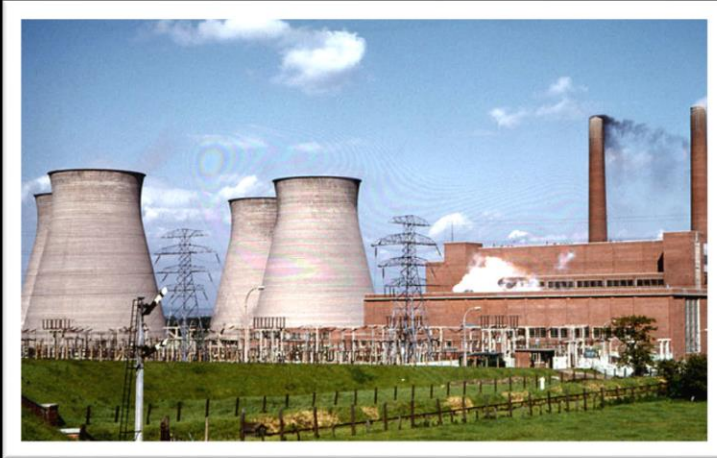
FALSE

The CBD will be found at



Not found in the rural urban fringe

A



B



C



D



Statement: The buildings are at its highest and most dense in the city centre.

Reason: The value of the land increases as you move further away from the city centre.

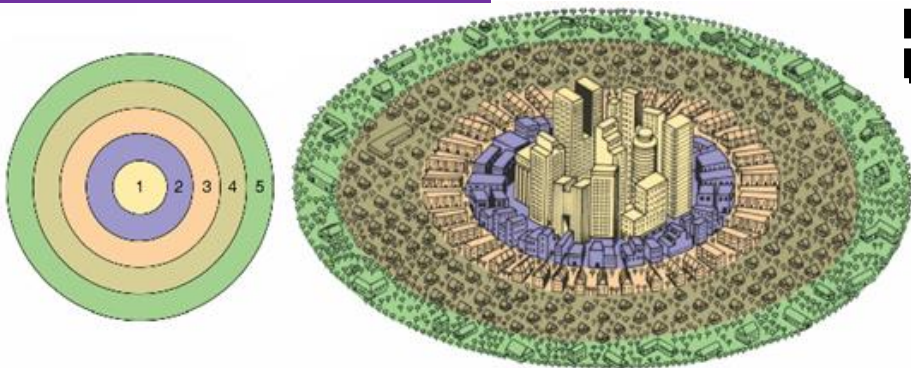


Choose from the following:

- A The statement as well as the reason is correct.
- B The statement as well as the reason is incorrect.
- C The statement is correct, but the reason is incorrect.**
- D The statement is incorrect, but the reason is correct.

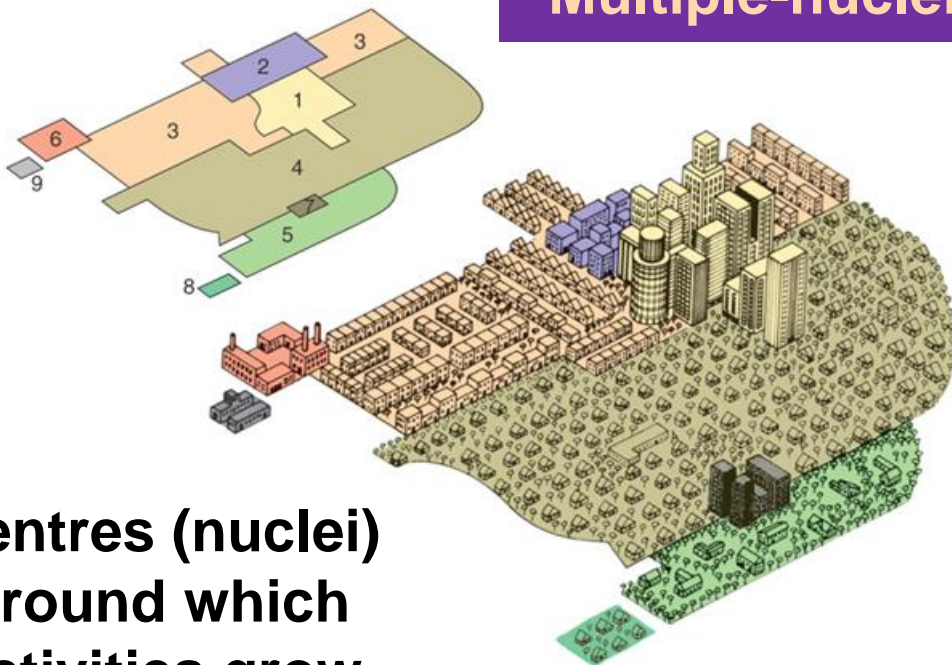
Models of urban structure

Concentric zone



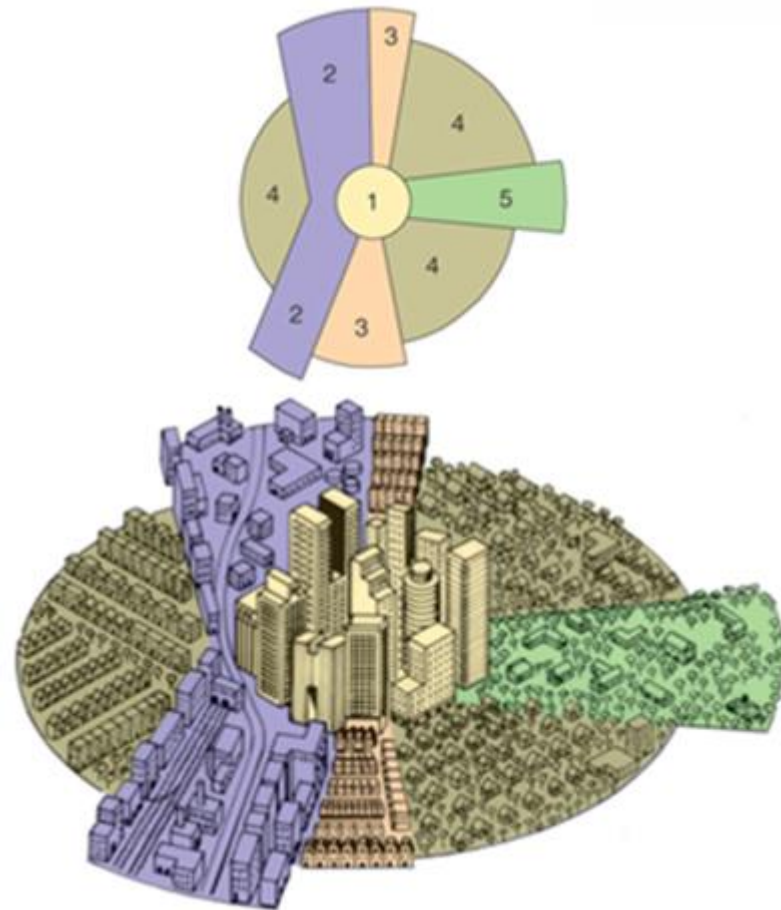
Concentric rings around the CBD

Multiple-nuclei



Centres (nuclei) around which activities grow

Sector



Sectors radiating from the city centre



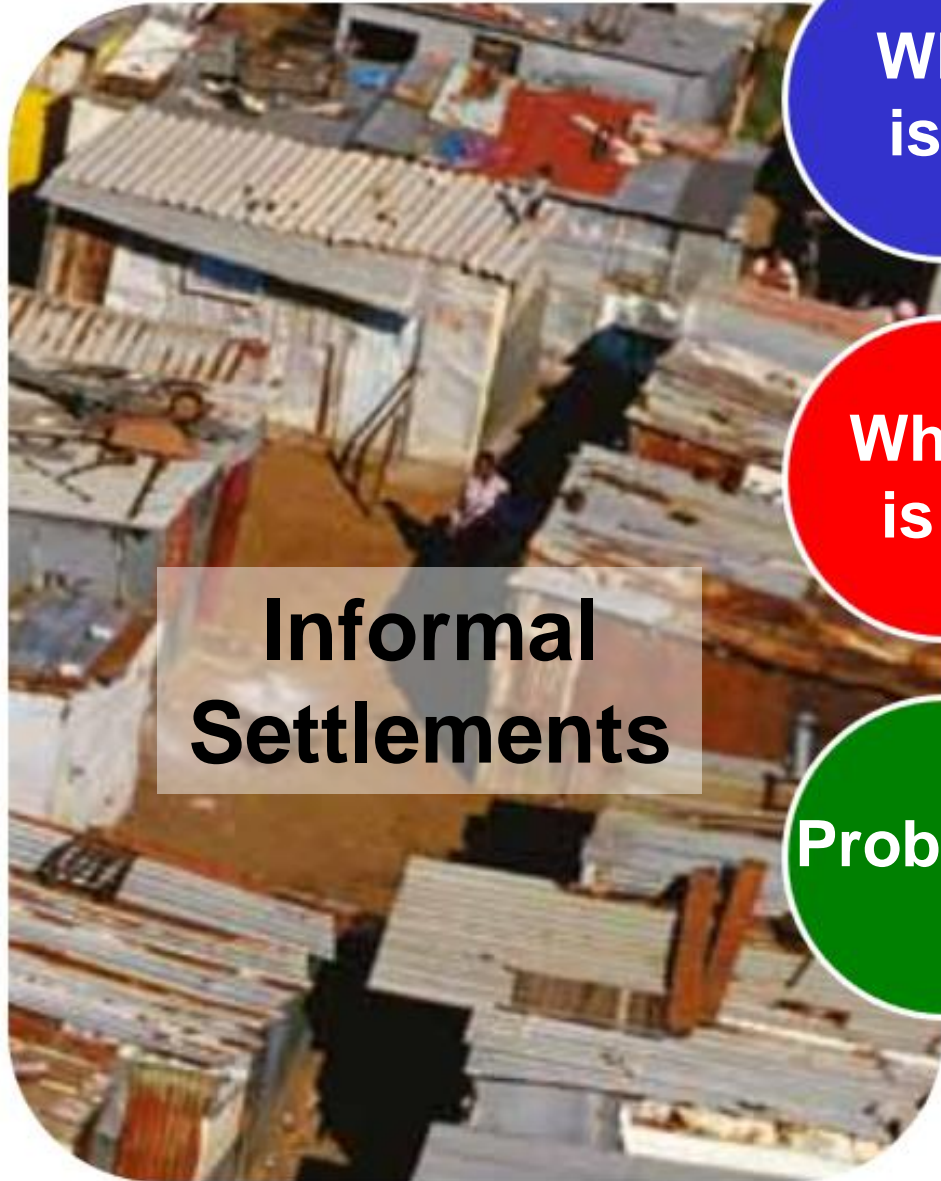
URBAN SETTLEMENT ISSUES

URBAN SETTLEMENT ISSUES



	CONGESTION	URBAN DECAY	OVERCROWDING
	Too many cars on the road	Where part of the city or are over-used	Too many people moving into the city
CAUSES	<ul style="list-style-type: none"> • Too many people using own cars • Not enough public transport • Old street pattern 	<ul style="list-style-type: none"> • Too many people living in the city • Empty buildings 	<ul style="list-style-type: none"> • High demand for land in city • Too many people living in the city
EFFECTS	<ul style="list-style-type: none"> • Air pollution • More accidents • Stress, health problems road rage 	<ul style="list-style-type: none"> • Slums develop • Services decline • Increased pollution • Area becomes dirty 	<ul style="list-style-type: none"> • Increased pollution • Health problems • Destruction of environment • Production of too much waste
SOLUTIONS	<ul style="list-style-type: none"> • Improve public transport • Lift schemes • Decentralisation of businesses • Synchronise traffic lights 	<ul style="list-style-type: none"> • Renovation • Renewal • Reduce housing density • Improve services 	<ul style="list-style-type: none"> • Decentralisation of functions • Green belts • Stricter control of pollution

URBAN SETTLEMENT ISSUES



Informal Settlements

What is it?

Sometimes illegal settlement of make-shift dwellings made from scrap materials

Where is it?

On the edge of cities. Some can be up to 30 km away from the CBD.

Problems

- Lack of infrastructure
- No proper sanitation, clean water, electricity, refuse removal.
- Lack of amenities.
- Fire
- High population density

NB How managed?

