

## Chapter 15 - Urbanization

Social Studies 11

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### Introduction

- 1871
  - Men = life revolved around jobs
  - Women = life revolved around households and chores
  - Only 18.3% of Canadians lived in towns and cities



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### Introduction

- 1971
  - Most Canadians (76%) lived in towns and cities



Urbanization: Movement of people to cities

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## Introduction

- Most developed countries became urbanized during the 19<sup>th</sup> and 20<sup>th</sup> centuries
- This shift is mostly complete
- Now shifted to developing countries in Africa, Asia, and Latin America

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## Global Urbanization

- Causes of movement to cities
  - **Mechanization:** Machinery displaced workers in mining, fishing, logging, and especially farming
  - **Industrialization:** encouraged the concentration of manufacturing sites that had the right combination of raw materials, power, and transportation facilities
  - **Technological change in fuel sources:** from firewood to coal and then petroleum - meant that energy supplies could be hauled long distances to cities, to be consumed by the factories and workers housed there

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## Global Urbanization

- First countries to industrialize = first to urbanize
- Rate at which urban areas are growing is 1.5 times faster than world population growth!
- Births AND in-migration (people moving into cities)
- Globally, urban areas are growing at an average rate of 2.5% every year (about 3.5% in developing countries and 1% in developed countries)

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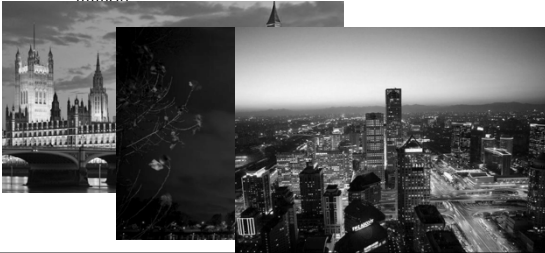
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## Millionaire Cities

- In 1850, when only a part of the world was urbanized, just London, Paris, and Beijing had populations over 1 million



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## Millionaire Cities

- In 2000, 400 cities had over a million residents
- And now...



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## Rapid Urban Growth

- **Shanty Towns:** makeshift communities that have grown up around rapidly growing urban centres in developing countries
- **Built by squatters** on land they do not own from whatever building materials they can find



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## Rapid Urban Growth

- Demands of exploding populations put strains on water supplies, sewage facilities, mass transit, power grids, health and social services, policing, and fire protection
- Eg. Roadways are so crowded in Bangkok, Thailand that the average driver spends 44 days per year sitting in traffic



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## Plight of Street Children

- Estimated 100 million children live on the street world wide



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## Plight of Street Children

- In Sao Paulo Brazil they make up 10% of the city's population



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## The Plight of Street Children

- Abandoned by families struggling with poverty
- Fleeing abusive homes
- Lacking job skills
- Turn to begging
- Shining Shoes
- Stealing
- Prostitution
- Often Victims of street violence, sexual predators or substance abuse
- In some countries police have murdered street children whom they see as a nuisance.

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## The Plight of Street Children



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## The Plight of Street Children



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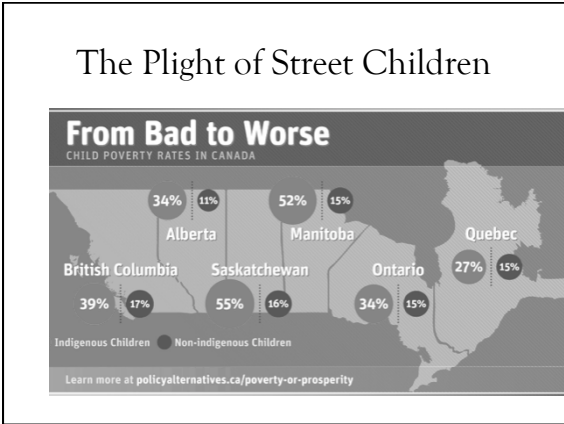
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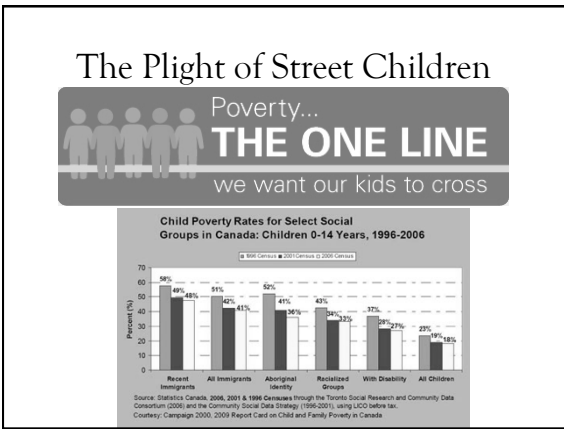
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### Function and Form in Cities

- **Push Factors:** encourage people to leave their rural homes and go to cities
- **Pull Factors:** attract people to cities
- **Urban Functions:** the activities and services that are provided by towns (ie. Cultural and financial services)
  - Changes over time

**PUSH** **PULL**

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### Site and Situation

- **Site:** the physical characteristics of the land on which the city is built (landform, drainage, natural vegetation cover)
  - Ie. Harbours, mountains, valleys, etc. (Richmond and the dyke)
- **Situation:** the relationship between the city and its wider surroundings (information about the population and economic patterns)
  - Ie. Proximity to the border, transportation connections

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### Site and Situation

- If both remain favourable then the community will grow and prosper
- Vancouver has a **locational advantage** over Victoria because it is closer to raw materials, has a large harbour and land-based transportation systems and is directly linked to large cities in the US and other cities in Canada
- Some communities decline and even cease to exist because their sites and situations cannot sustain them (ie. Chief natural resource runs out or the location is far from transportation routes)

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### Analyzing Urban Functions

- **Basic Activities** (town-forming activities)
  - Industries such as mills, factories, and mines
  - Tourism, military facilities, public administration, transportation
  - Serve a larger population than just the community and bring wealth into the area
- **Non-Basic Activities** (town-serving activities)
  - Exist to meet the needs of the local population
  - Grocery stores, places of worship, municipal services such as parks
- **Multiplier effect** = earnings of workers in basic industries leads to expansion of the non-basic sector (ie. As more shops and services are provided (also works in reverse = job losses in basic activities produce even greater job losses in non-basic activities)

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## Analyzing Urban Functions

- Multiplier effect leads to unequal growth among different communities. Communities that have a locational advantage enjoy growth in basic activities and the multiplier effect produces even greater employment in non=basic sectors
  - Toronto, Vancouver, Bombay, Cairo, Jarkarta = rapid growth
  - Seoul earns 24% of S. Korea's GNP
  - Bangkok generates 43% of Thailand's wealth

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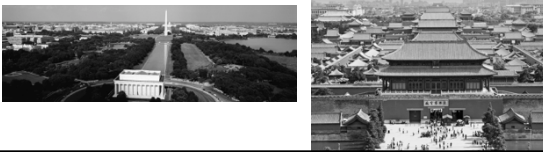
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## City Forms

- **Political and religious cities:**
  - Designed to serve important religious or political functions such as being the national capital or holy centre
  - Usually centred on a temple or place of great religious significance or important buildings



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## City Forms

- **Organic Cities**
  - Evolved quite naturally in ways that fit the physical landscape
  - Urban functions blend together with shops, homes and workplaces all close together
  - Rarely grow very large; good cities to walk around in



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## City Forms

- **Planned cities**
  - Designed to keep urban functions apart with separate places for homes, shops, and industries
  - Linked through transportation connections



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## City Forms

- **Transit cities**
  - Made up of sub-centres linked to a city core by transportation services



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## City Forms

- **Automobile Cities**
  - Expand outward in all directions from the city core
  - Roadways link the urban functions that are separated into distinct zones
  - Typically sprawl outwards for many kms, adding suburbs to the original city
  - Dominant form of cities in the world today



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### Automobile and the City

- Cars have allowed us to separate work, home recreation, and shopping
- Unfortunately also resulted in long commutes, daily traffic chaos, increased stress, polluted air, and petroleum shortages
- About 1/4 of all the land in N. American cities is used for transportation activities with most paved over for roadways and parking lots
- Salt and oil-laden runoff from roads and parking lots washes into streams, damaging their ecosystems
- Cars are the largest single source of greenhouse gases that cause global warming (also contribute to smog).

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### Smog



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### Land-Use Controls and Urban Sprawls?

- Should there be land-use controls against urban sprawl?
- Infrastructure that supports urban sprawl is expensive (costs \$10 million to build 1km of 4-lane expressway)
- Sprawl breeds more sprawl. Building more roadways encourage more people to move out to the fringes of cities
- Farmland is lost
- Devastating to social and economic health of a city (allocation of tax dollars)
- Land uses are segregated (homes vs. malls, vs city etc)

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### Case: Not Controlling it

- Land costs are lower on the fringes of cities = housing is more affordable and greater number of families can afford newer, spacious dwellings
- Construction of main roads creates natural locations for commercial development (concentrated in areas leaving residential streets traffic free)
- Homeowners in low-density housing developments plant trees and shrubs and grow lawns
- Jobs are being created in the suburbs

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### Land Use in Cities: Analyzing Land-Use Patterns

- Site, situation, function, economics, and politics exert an influence on where land uses are established
- **Competition for Land**
  - Businesses need the best locations in order to be successful
  - Competition for land is usually strongest around the most desirable intersections (Peak Value Intersections or PIVs) ie. Granville and Robson



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### Land Use in Cities: Analyzing Land-Use Patterns

- **Land-Use Zoning**
  - Rapid growth of cities has led municipal and provincial governments to set up land-use controls
  - Land that permits uses such as stores or banks is zoned "commercial"
  - Land where only homes are permitted is zoned "residential"
  - Land-Use controls also ensure that municipal services can be provided in the most efficient manner
  - City establishes an **official plan** – a broad plan for growth and development drawn up after lengthy consultation with the people of the city
  - Zoning by-laws to enforce

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**Building Sustainable Cities**

- As cities in developing countries grow, global environmental damage will only increase
- Abandoning cities and moving to the countryside is not a solution because it removes the benefits of urban living
- Solution is to redefine and reshape cities - to make cities more sustainable

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**Building Sustainable Cities**

- **Sustainable Cities:** those in which resource decisions today do not compromise the quality of life for future generations
  - Transportation system
  - Mix of land uses - reduce commuting
  - Variety of affordable housing types
  - Effective infrastructure (sewage treatment, water, health care, waste recycling, education)
  - Parks (civic amenities)
  - Alternative energy use maximization

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**Building Sustainable Cities**

- Top 10 Sustainable Cities in the world: (depending who you ask)
  - Frankfurt
  - London
  - Copenhagen
  - Amsterdam
  - Rotterdam
  - Berlin
  - Seoul
  - Hong Kong

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## Video

- Masdar: The City of the Future
- <https://www.youtube.com/watch?v=Nlaz61zpLfs>

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## Urban Problems and Sustainable Opportunities

- **Energy Consumption**
  - Cities account for 80% of the world's use of fossil fuels through residential, industrial, and transportation consumption
  - In a sustainable city, conservation would reduce the amount of energy required
  - Local, renewable forms of energy would supply most needs (eg. Solar-electric roof tiles)



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## Urban Problems and Sustainable Opportunities

- **Transportation**
  - In N. America up to 94% of urban dwellers commute to work by car
  - Reducing our reliance on cars in urban areas will reduce pollution, increase space for more beneficial uses, reduce energy consumption
  - One transit rider uses 900L of gasoline per year less than a commuter using an automobile
  - Cities have to be compact (build up not out)



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## Urban Problems and Sustainable Opportunities

### o Food

- o Almost all food consumed in cities has to be imported with tremendous costs measured in energy consumption, pollution from transportation, and distribution requirements
- o Cities could reduce their food needs if people modified their diets to suit local crops rather than imports
- o They could also use wasted urban spaces such as roof tops, boulevards, and backyards to produce food
- o Zone protection for agriculture must stay strong!



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## Urban Problems and Sustainable Opportunities

### o Wastes

- o N. Americans are the most wasteful people on Earth
- o Typical person discards up to 1.6kg of waste per day
- o Recycling has been somewhat effective
- o Small industries spring up based on recycled materials



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## Urban Problems and Sustainable Opportunities

### o Density

- o Many cities waste space
- o People live far apart and drive long distances to work
- o Sustainable city = use less space
- o Higher density will be achieved by **infilling** (increases density by rezoning and rebuilding in populated areas)
- o City centre will grow upward
- o People will not need cars and public transit will be fast and efficient

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## Urban Problems and Sustainable Opportunities

- Recap
  - Energy Consumption
  - Transportation
  - Food
  - Waste
  - Density

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## Sustainability

- [https://www.youtube.com/watch?v=buH\\_vs7LEzw](https://www.youtube.com/watch?v=buH_vs7LEzw)

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## Writing/Mini Research: In Partners Worksheet & Research

- Handout
- Research:
  - Research something that is being developed to help with one of the 5 areas of sustainable opportunities
  - Include
    - Image of the invention
    - Who invented it
    - What it's intended use is and which opportunity for sustainability it helps
  - 1-paragraph discussion
    - Practicality
    - Cost effective
    - Accessibility (who does it help and who can own one?)
    - Other comments

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