

Central Case: Managing growth in Portland, Oregon

- Oregon residents feared sprawling development would ruin their communities
- Urban Growth Boundaries (UGBs) allow development in urban areas and protect open spaces and rural land
- Measure 37 became Measure 49 and new regulations were put into place in 2007

1990 2000 2010 2020



Our urbanizing world



- Urbanization = the movement of people from rural to urban areas
 - The greatest change of human society since its transition to a sedentary agricultural lifestyle
- Why are urban areas are growing rapidly?
- growing human population
- Industrialization causing movement from farms to cities









Today's urban centers

- **Metropolitan area**: geographical area (or entire county) with a minimum pop. of 100,000 and at least 50,000 of pop. living in a center city
- **Megalopolis**: area of <u>fused cities</u> with 10 million or more people (New York, Los Angeles, Tokyo)



Urban growth has often been rapid

• Growth in U.S.:

space

- Due to increased trade
- Crowding and deteriorating economic conditions occurred
- Residents moved to the suburbs
- Movement to southern & western states due to warmer weather or more

- Fast-growing cities are
 - in <u>developing countries</u>: • Less need for farm
- labor
- Wars, conflict, and ecological degradation
- Many cities now face overcrowding, pollution, and poverty



What is *marginal land*? Land that is poorly suited for building.

- What happens when homes are built on marginal land? Damage that impossible to repair and insurance is expensive due to risk.
- Examples: Los Angeles and Mexico City

 little room for expansion. Expand up into the surrounding mountains on hillsides prone to landslides.







Factors influence geography of urban areas

- Climate, topography, and waterways determine if a small settlement becomes a large city
- Successful cities often located near corridors for trade



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People have moved to suburbs

- By the mid-1900s, the U.S. accumulated more people than jobs
- Unemployment caused poverty and crime
- Inadequate infrastructure
- Affluent city dwellers moved to cleaner, less-crowded suburbs
- Suburbs offer
- More space, privacy, better economic conditions, cheaper real estate, less crime, and better schools
- But natural space decreased with increasing suburbs
 People had to drive everywhere, increasing traffic congestion



Sprawl Houses and roads take over more than 1 million ha (2.5 million acres) of rural land per year Sprawl = the spread of low-density urban or suburban development outward from an urban center Caused by human population growth and per capita land consumption U.S. metropolitan areas grew by 80% since the 1950 but the land they covered grew by 305%











GIS Views of Seattle, Washington



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Smart growth

- Smart growth = urban growth boundaries and other land use policies to control growth
- Proponents promote:
- Healthy neighborhoods and communities
- Jobs and economic development
- Transportation options
- Environmental quality
- Building "up, not out"
- Focusing development in existing areas
- Favoring multistory shop-houses and high-rises



Principles of smart growth

- Mixed land uses
- Compact building design
- Range of housing opportunities and choices
- Walkable neighborhoods
- Distinctive, attractive neighborhoods
- Preserve open space
- Develop existing communities
- A variety of transportation choices
- Predictable development decisions
- Community collaboration in development decisions

New urbanism

- New urbanism = neighborhoods designed on walkable scale so homes, businesses, and schools are close together & needs can be met without using a car
- Transit-oriented development = communities arrayed around stops on a major rail transit line







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Urbanization impacts the environment

- **Resource sinks** = cities must import resources from long distances
- rely on land elsewhere for water, timber, minerals, etc.
- Material wealth grows as cities grow causing a bigger need for resources



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Efficiency in urban areas

- Dense cities minimize per capita consumption b/c resources w/in city are easier to deliver and obtain
- density facilitates social services that improve the quality of life such as medical services, education, water and sewer systems, waste disposal, transportation



Cities preserve land but export pollution

Because people are packed densely in cities, more land outside cities is left undeveloped

- If cities did not exist, we would have much less room for agriculture, wilderness, biodiversity, or privacy
- Cities export wastes and transfer the costs of activities to other regions
 - Citizens are exposed to pollution such as heavy metals and chemicals
- The poor bear the brunt of pollution because they are too poor to move







Urban sustainability: cities should...

- Use resources efficiently
- Recycle
- Develop environmentally friendly technologies
- Account fully for external costs
- Offer tax incentives for sustainable practices
- Use locally produced resources
- Use organic waste and wastewater to restore soil fertility
- Encourage urban agriculture