Unit 7

Cities and Urban Land Use

- Population
 - Depends on the Location
 - Portugal
 - Ethiopia
 - Norway

- Metropolitan Statistical Area
 - Census
 - Central City
 - Immediate Interacting Communities
 - Commuters
 - -50,000

- Metropolitan Statistical Area
 - Overlap
 - Raleigh, Durham, Chapel Hill
 - Megalopolis
- Micropolitan Statistical Areas
 - Smaller
 - -10,000-50,000

- Economic Diversity
 - Multiple Economic Activities

- Cultural Diversity
 - Larger Population
 - More economic activity
 - More Diversity

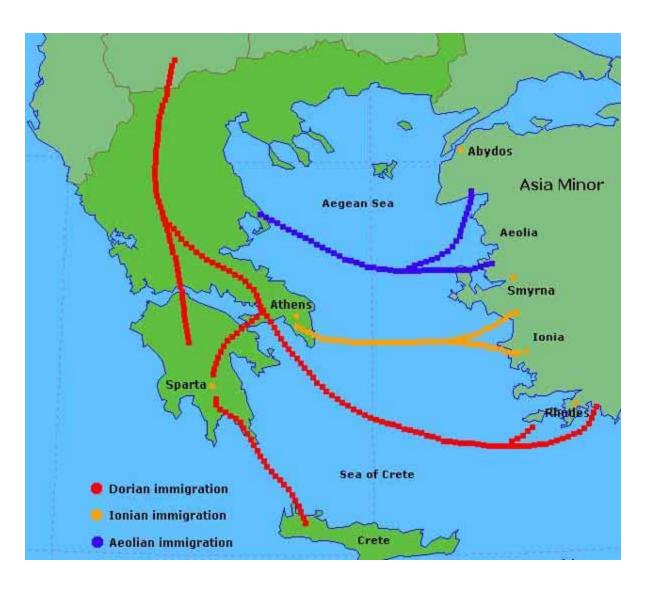
Origin and Evolution of Cities

- Hearths
 - Agricultural Centers
 - Mesopotamia
 - Indus River
 - Nile River
 - Yellow River
 - Mexico
 - Peru

Origin and Evolution of Cities

- Hearths
 - Trade Routes
 - Greeks
 - Romans
 - Phoenicians
 - Religious Significance

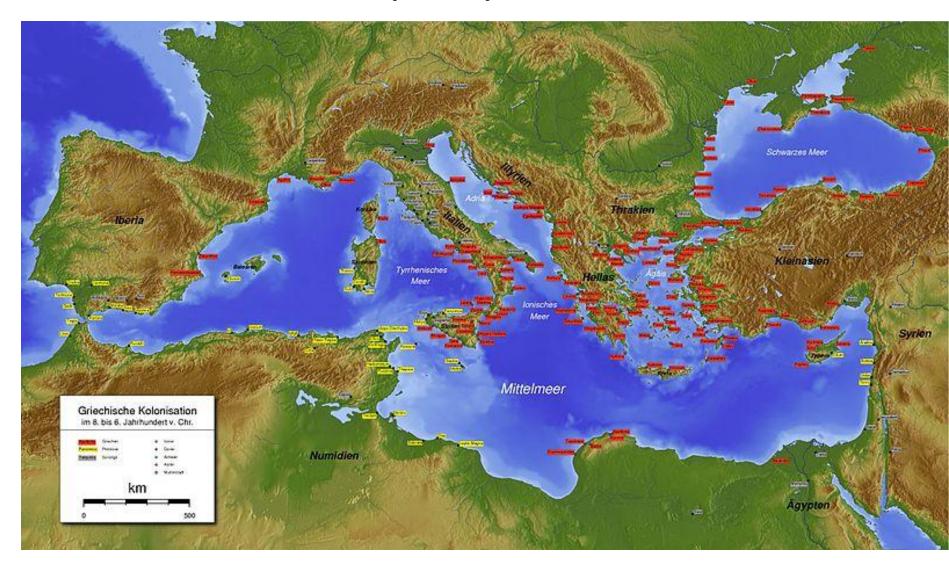
Greek City States



Roman Roads



Pheonician (Yellow) and Greek (Red) Colonies



Origin and Evolution of Cities

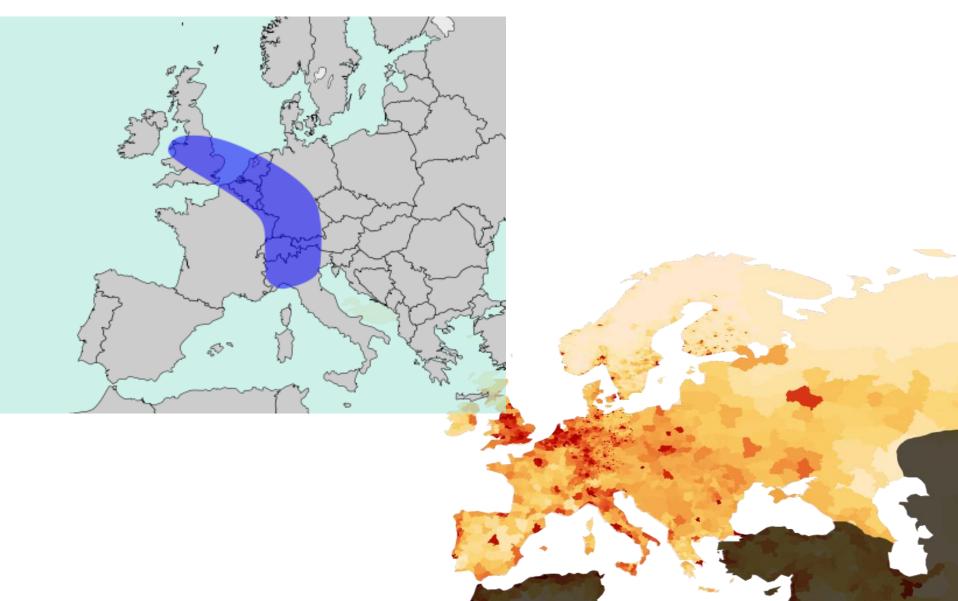
- Preindustrial
 - Surrounded by agriculture
 - Exchange goods and services
 - Trading Centers
 - Declined with Roman Empire

Origin and Evolution of Cities

- Preindustrial
 - Age of Exploration / Mercantilism
 - Old and New World

- 1500
 - Urban Banana
 - London to Tokyo

Europe's Blue Banana



Origin and Evolution of Cities

- Pre Industrial
 - Cities of power
 - Political, Economic, Etc
 - Commercial / Residential
 - Upper and Lower
 - Rich = City Center
 - Poor = City Rim

- Urban vs Rural
- 1800
 - **5%**
- 1950
 - **16%**
- 2000
 - -50%

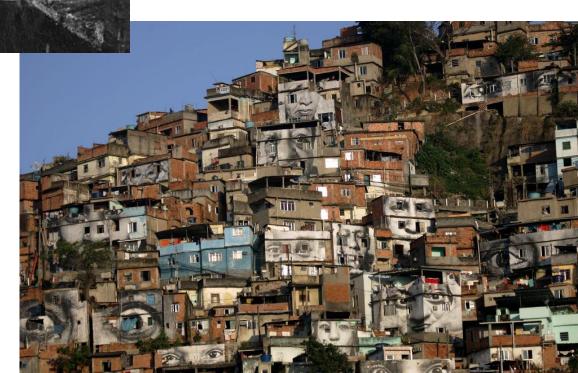
- MDC vs LDC
 - MDC = more urban
 - USA
 - 80%
 - Africa
 - 35%

- Industrialization = Urbanization
 - Jobs
- Shock Cities
 - Rapid Urbanization
 - Manchester, England
 - 80,000 (1750) -> 500,000 (1850)
 - Chicago
 - 4,000 (1835) -> 1,500,000 (1900)



Manchester, England

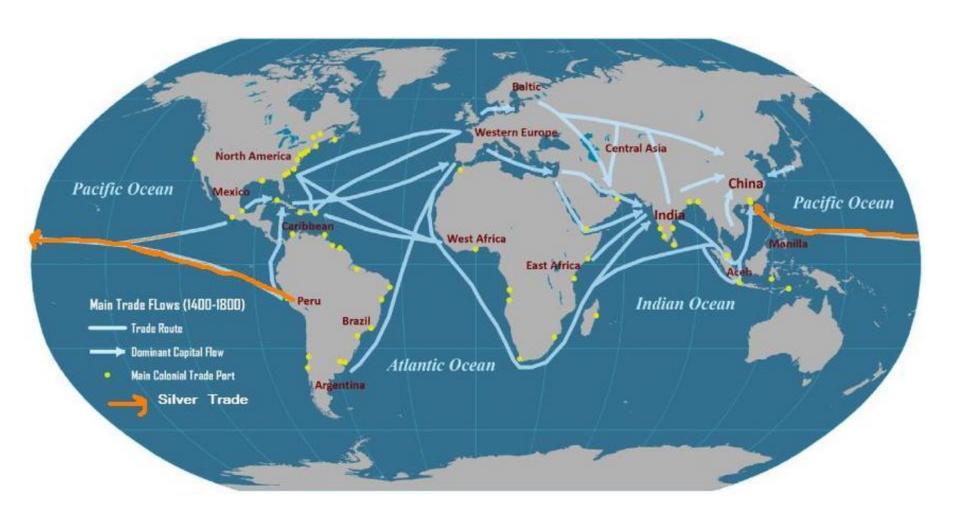
Rio de Janeiro, Brazil



- Problems
 - Slums
 - Housing
 - Pollution
 - Fire Hazards
 - Children

- City Trends
 - Pre 1700
 - Land Based Trade Centers
 - Post 1700
 - Sea Based Trade Centers
 - Early 1900s
 - Industrial Centers

European Colonia Port Cities



Political Map of the World, September 2008 NORTH NORTH UNITED STATES OCEAN KIRIBATI BRAZIL INDIAN SOUTH St. Holess OCEAN French-Polynesia Jr. S. sed Art. Leeds SOUTH Antarctica September 2008

- Industrial Centers
 - No political connection
 - Located many places
 - Create / Distribute Products

- Connectedness of cities
 - Economics
 - Transportation
 - Population
 - Culture
 - Information

Global Flight Patterns



- 3 Scales
 - Global
 - New York, London, Tokyo
 - Regional
 - New York, Chicago, Los Angeles
 - Local
 - Atlanta, Macon, Birmingham, Greenville, Charolette

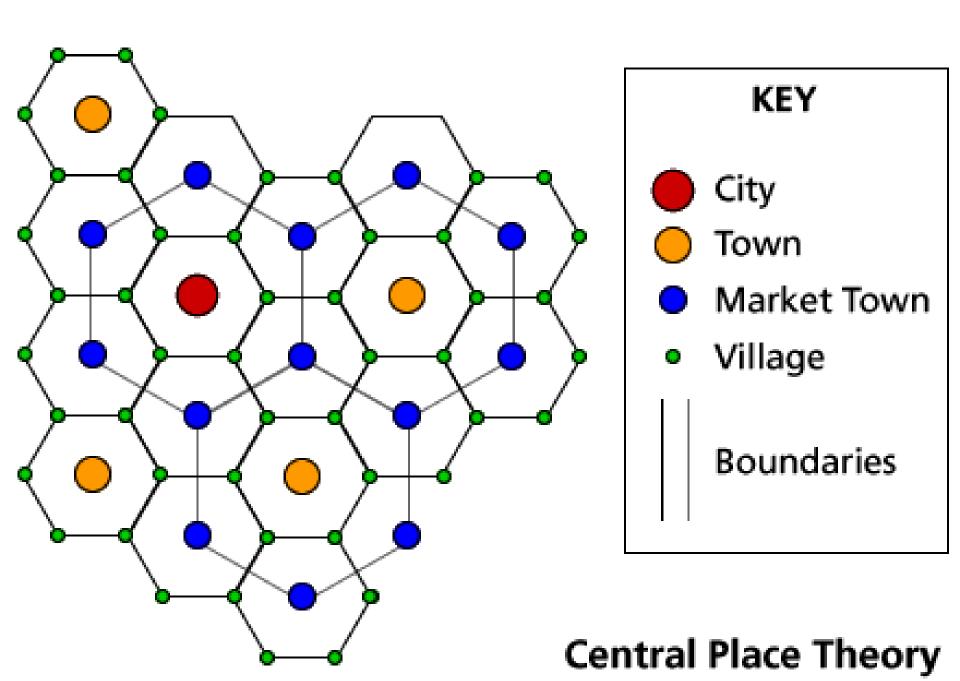
- Why they develop?
 - What is their impact?
- Central Place Model
 - Christaller
 - Patterns of Urban Land Use
 - Ideal world
 - All things equal

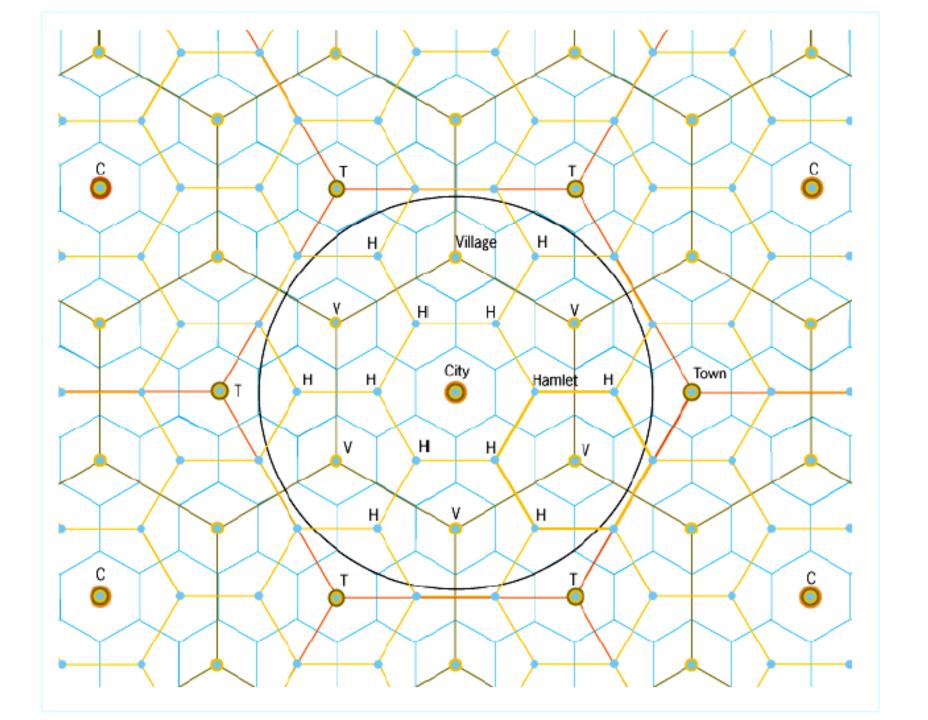
- Central Place Model
 - 4 Main Points
 - Urban centers
 - Provide Services
 - Hinterland
 - Threshold
 - Minimum Number
 - More unique, higher threshold

- Central Place
 - Range of Goods and Services
 - Maximum Distance
 - The further, the greater the range
 - Spatial Competition
 - Compete for Customers

- Christaller's Model
 - Economic functions dictate location
 - Central Place
 - High Population
 - High Threshold
 - High Range
 - Serve those around

- Christaller's Model
 - Hexagon





- Central Place Theory
 - Urban Hierarchy
 - Determined by economic functions
 - Higher Range
 - Higher Threshold

- Central Place Theory
 - Rank-Size Rule
 - Population Size and Hierarchy
 - Population = 1/Rank
 - US
 - Not older Countries
 - Primate Cities

- World Cities
 - Global Cities
- World Economic, Political, Cultural Power
 - 1600 = London, Lisbon, Amersterdam
 - -1700 = Paris, Rome
 - Present = New York, Amersterdam, Milan
- Pararegional Influence

Urban Systems

- Mega Cities
 - Step Down
 - Not global / But @ home
 - 10 million +
 - A connector
 - Beijing, Cairo, Jakarta, Mexico City

Urban Systems

- Rate and Level
- Rate
 - Speed
- Level
 - Percentage
- LDC vs MDC

Urban Systems

- In the future.....
 - MDC cities
 - LDC cities
- Why?
 - MDCs
 - LDCs
- Problems caused by rapid urbanization

Models of Urban Systems

- Borchert's Model
 - Study of US cities
 - 4 categories
 - Transportation
- Stage 1
 - Sail Wagon Era
- Stage 2
 - Iron Horse Cities

Boston Harbor



Chicago





Models of Urban Systems

- Borchert's Model
- Stage 3
 - Steel Rail
- Stage 4
 - Car and Plane
- Summary
 - Importance of cities

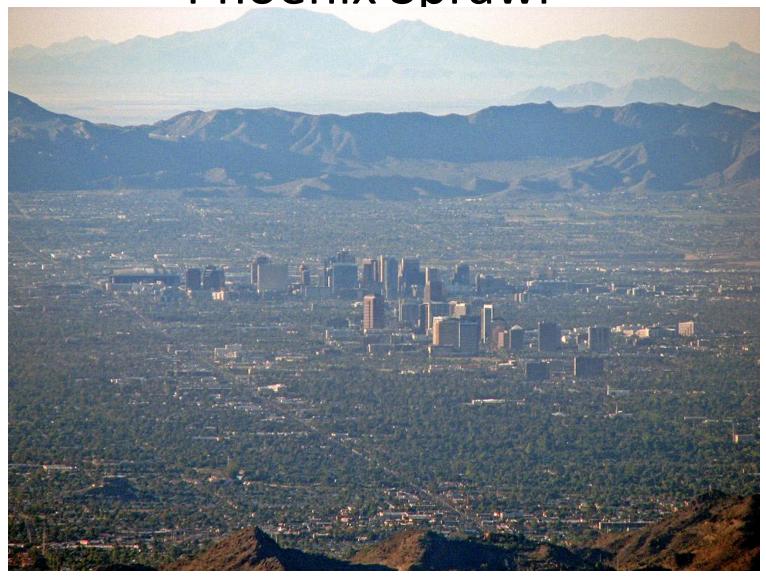
Pittsburgh



LA Sprawl



Phoenix Sprawl



- Basic vs Nonbasic Jobs
- Employment Sectors
 - Types of people and jobs that can be found
- Basic
 - Gives city its function
 - Ex: Flint, Michigan

- Nonbasic
 - Supports infrastructure
 - Teachers, firemen, dry cleaner

- Correlation
 - Larger the city....

Basic sector defines the city

- Exploit basic jobs
 - Create more nonbasic
 - Multiplier effect

- Agglomeration
 - Business is industry leader
 - Becomes growth pole
 - Pull off of good reputation

- Chapel Hill, NC
 - Medical Research
 - Growth Pole
 - Agglomeration
 - Nonbasic jobs
 - Infrastructure Problems
 - Backwash Effect

- Employment Mix
 - Basic jobs sectors changing
 - America
 - Industry / Manufacturing
 - Service / Professional
 - Post Industrial Cities
 - Centers of Consumption

Post Industrial Architecture

- Cities moving backward
 - Centers of trade
 - Outside of cities

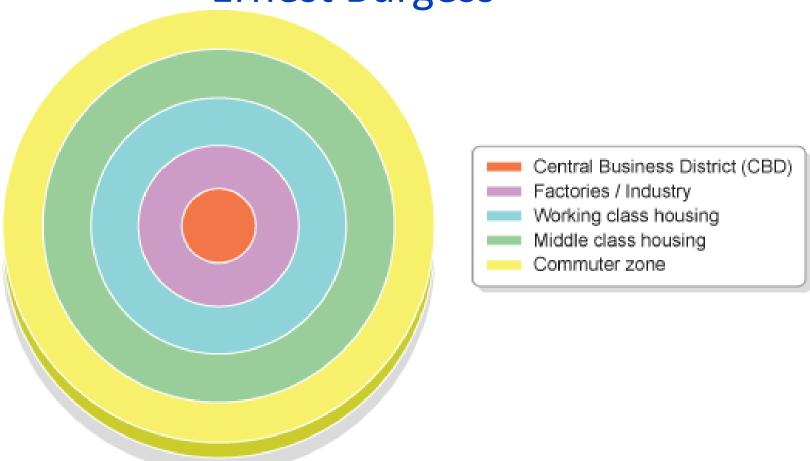
- Decline of industrial jobs
 - Loss of jobs

- CBD
 - Core of the city
 - Nucleus
- Concentric Zone Model
 - First model
 - Chicago
 - Series of rings
 - Remember von Thunen

- Concentric Zone Model
- Rings added
 - City expands
 - New functions
 - Assumes invasion and succession / succession migration
 - Zone in transition / Skid Row
 - Constant Transition

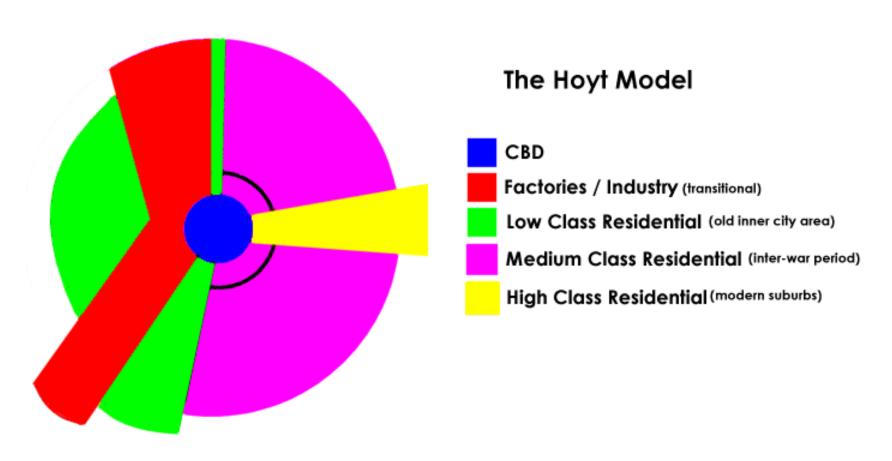
- Concentric Zone Model
- CBD = Down Town
 - Maximum Accessibility / Visibility
 - Peak land value intersection
 - Highest real estate / Competition for Land area
 - Land value decreases
 - Bid-Rent Curve
 - Land price / population density decline

Concentric Zone Model Ernest Burgess



- Sector Model
 - A response to the Concentric Zones Model
 - Zones do not develop as rings
 - Transportation routes
 - Strong, Central CBD

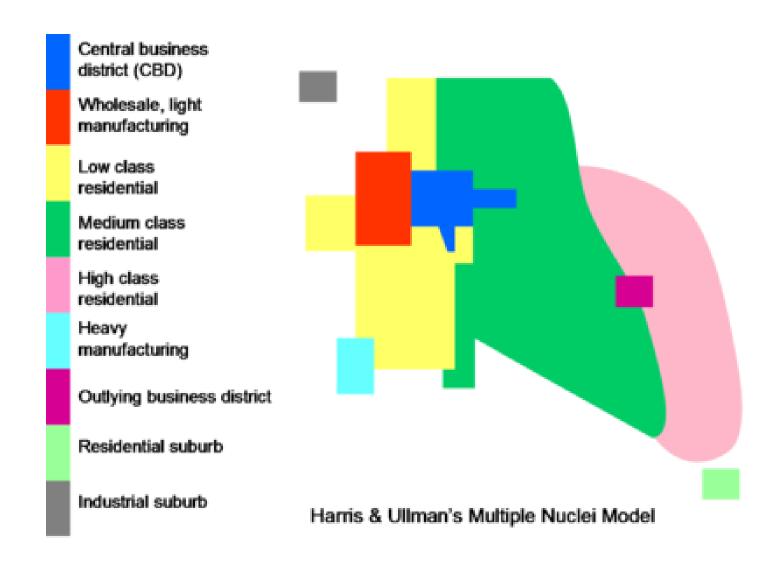
The Hoyt Model Sector Model



www.bennett.karoo.net

- Multiple Nuclei Model
 - No strong CBD
 - Strong focal points
 - Airports, Universities, Highway intersections, ports
 - Sectors are loosely dependent

Multiple Nuclei Model Harris & Ulman



- Urban Realms Model
 - Automobile
 - Suburban Regions
 - Live outside major metropolitan areas
 - Independent
 - Show effects of counter-urbanization
 - Transportation / Communication
 - Work related activities

Urban Realms

URBAN REALMS MODEL

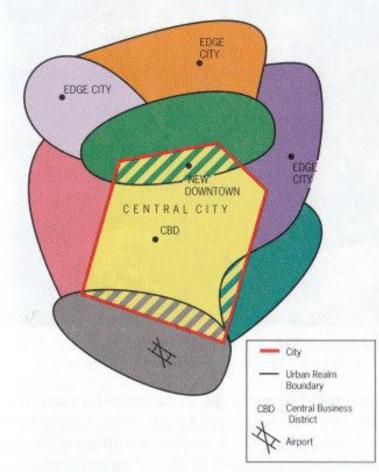
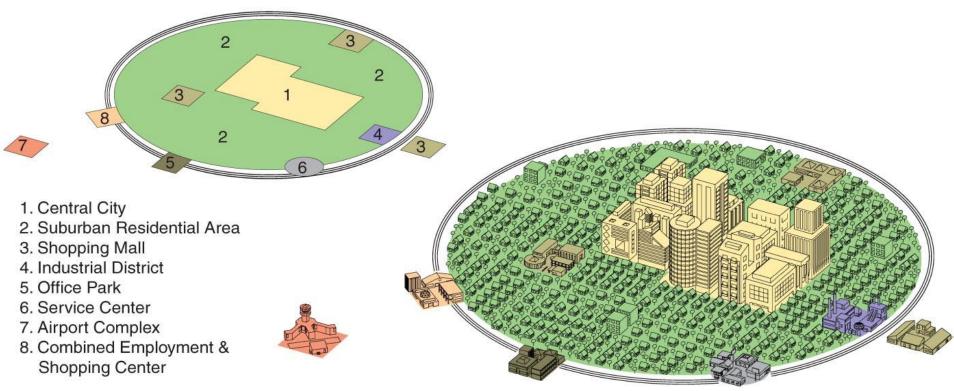


Figure 9.23

Urban Realms Model. The Urban Realms Model includes a central business district, central city, new downtown, and suburban downtown. Adapted with permission from: T. Hartshorn and P. O. Muller, "Suburban Downtowns and the Transformation of Metropolitan Atlanta's Business Landscape," Urban Geography 10 (1989), p. 375.

Peripherial Model



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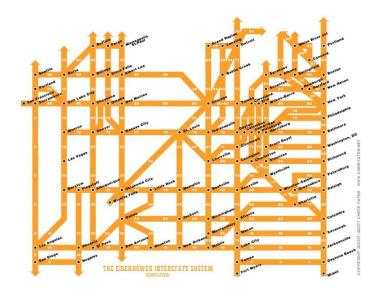
Transportation and Urban Infrastructure

- Initially
 - Close together
- Transportation improves
 - Spread out
- Mode of transportation
 - Types of business

Transportation and Urban Infrastructure

- National Defense Highways Act
 - -1950
 - Interstate Highways
 - Beltways
 - New Nuclei

Interstate HWY System



Urban Sprawl / Edge City

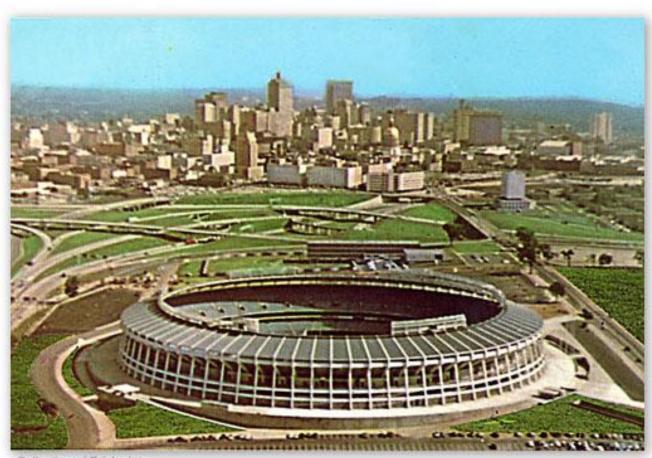
- Cities outside
- Greater Metro Area



Urban Sprawl / Edge City

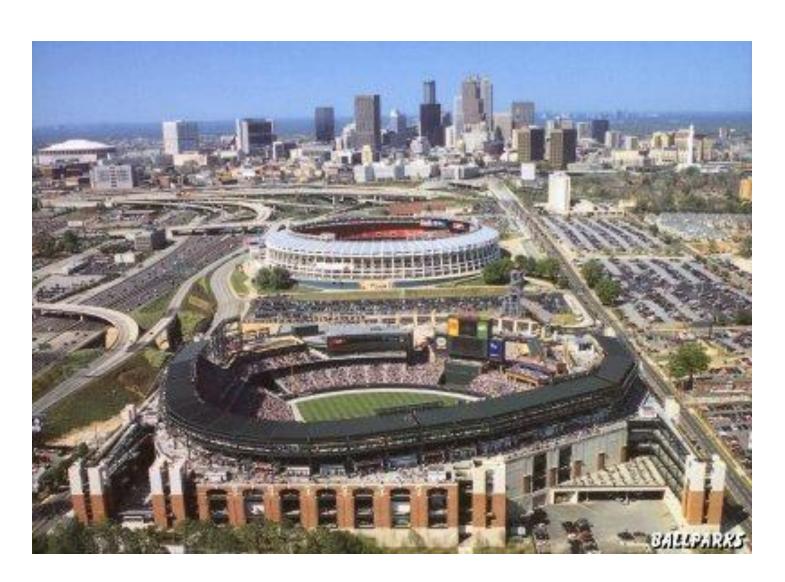
- US HWY System
 - Spread of
 - Problems

Fulton Co Stadium

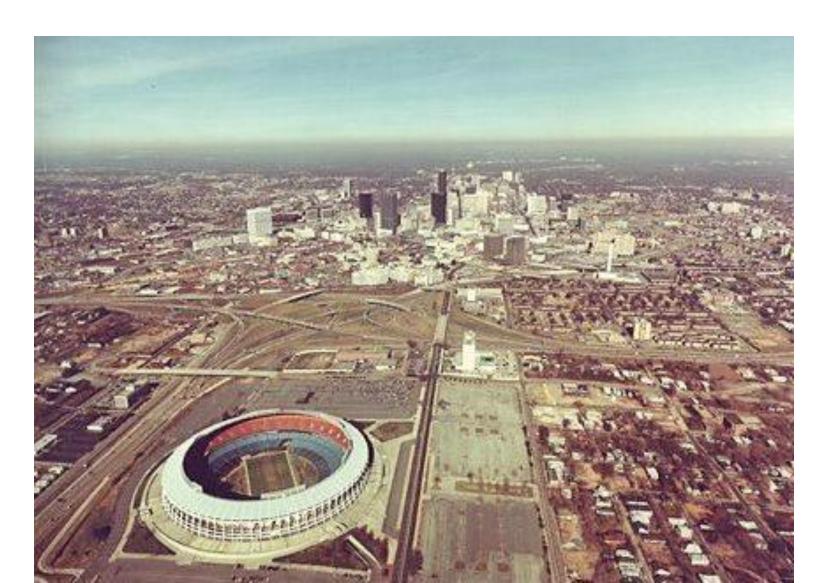


Collection of Ed Jackson

Turner Field



City of Atlanta 1980



Atlanta 2009



Political Organization and Urban Sprawl

- Creating cities
 - Gov't
 - Taxes
 - Gov't Services
- Taxes won't go to...
- Problems

Political Organization and Urban Sprawl

- Financial Roadblocks to Poor
 - No low income housing
 - Fees

Ghettoization and Uneven Development

- Ghettoization
- Uneven Development
 - Problems...
 - Cumulative Causation
- Why does this happen?

Blockbusting / Redlining / Racial Steering

- Blockbusting
 - Real Estate Agents scare white families
 - Move out / move in

- Racial Steering
 - Encourage moving into like neighborhoods
 - Illegal

Blockbusting / Redlining / Racial Steering

- Redlining
 - Banks
 - Lending practices
 - Why?
 - Illegal

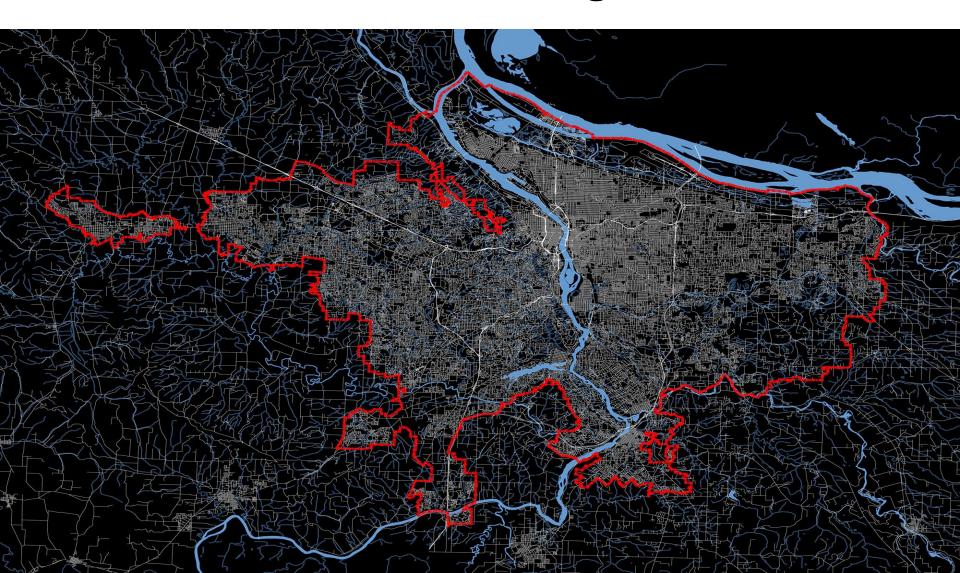
Gentrification

- Improvement to urban areas
 - Move back in
- Positives
 - Improvements
- Negatives
 - No longer can afford

Green Belts

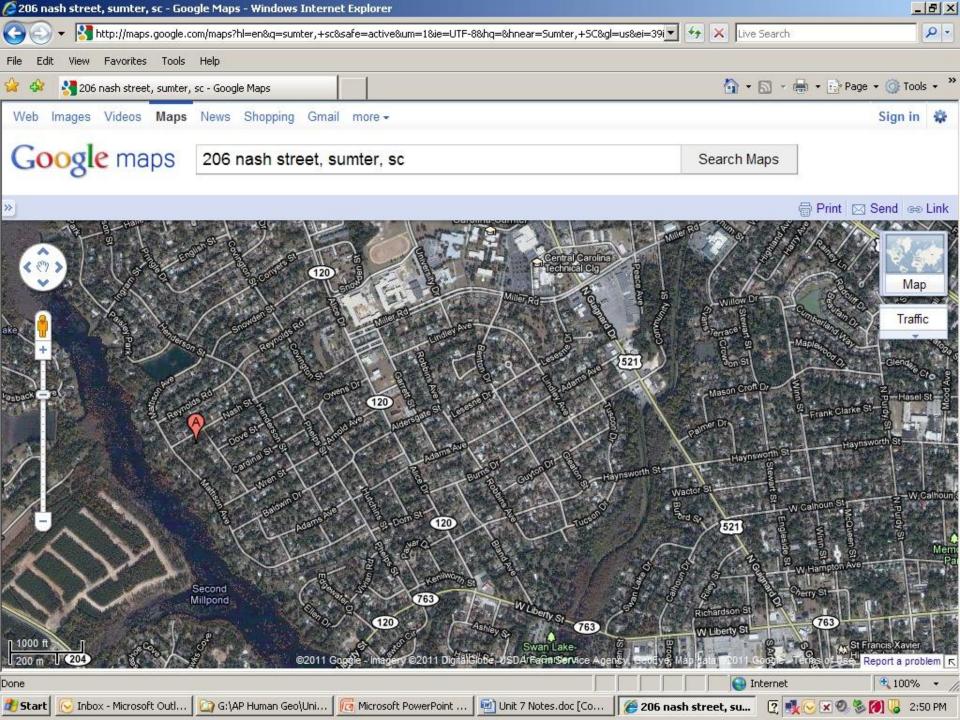
- Contain Urban Sprawl
 - Development must remain inside
 - Forces revitalization
 - Portland, Oregon

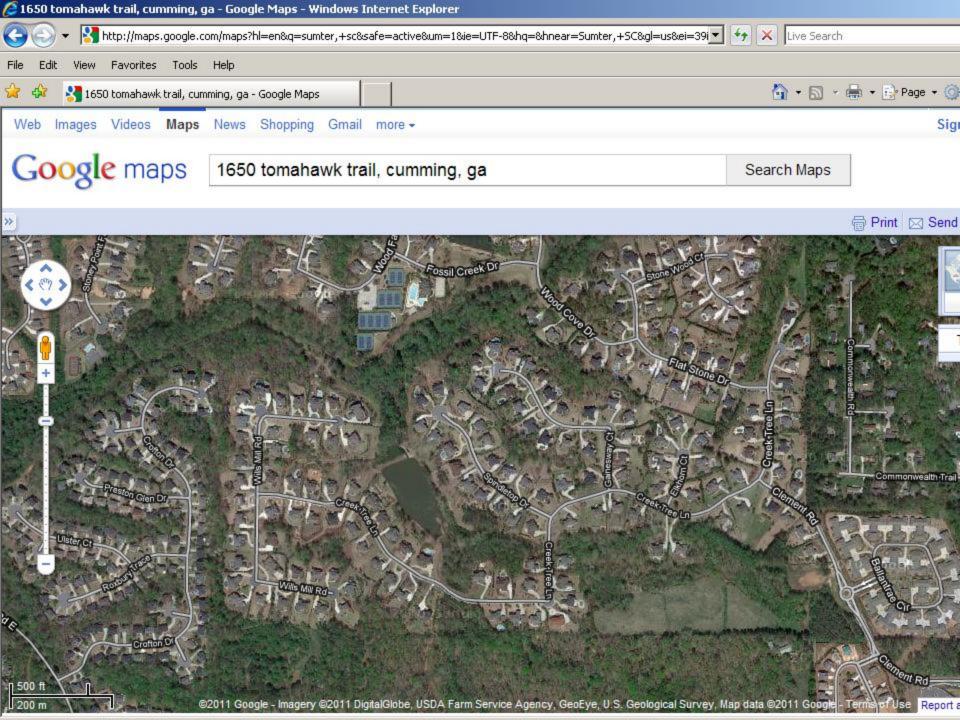
Urban Growth Boundary Portland, Oregon



Street Morphology

- Development of Street Patterns
 - Cul-de-sac
 - Replaces grid system
 - More privacy
 - Creates traffic problems





Zoning Laws

Prevent / Allow Development

Recent Trends in Neo Urbanism

- Planned Community
- Livable City
 - Health / Environment Concerns
- Decrease Sprawl

