

# Chapter 14

A New Industrial Age

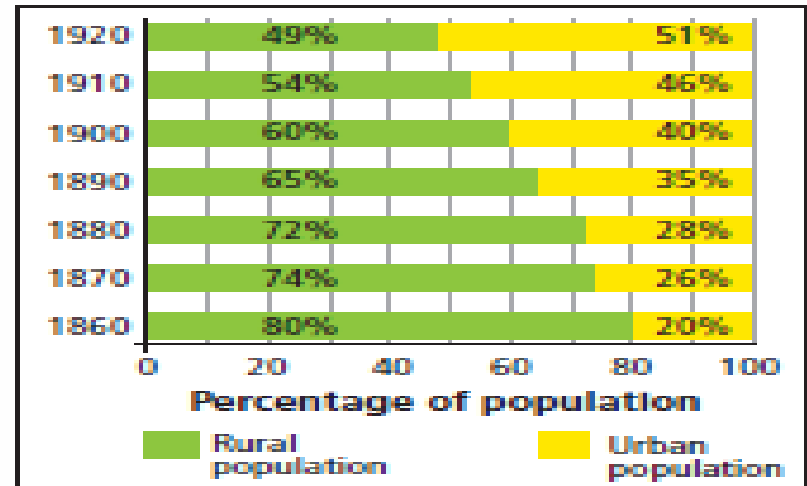
# Section 1: A New Industrial Age



# Industry Expands

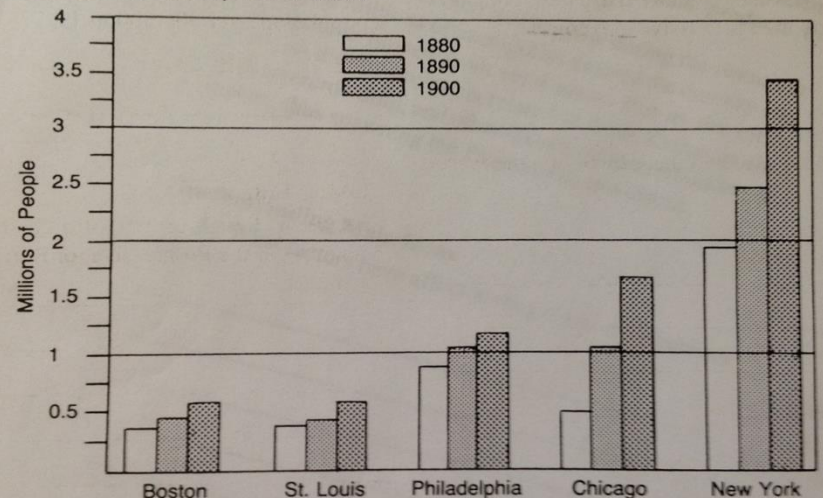
## Rural and Urban Population

- Period between Civil War and 1920s – Industrial Boom
  - Natural Resources
  - Government Support
  - ↑ Urban Population:



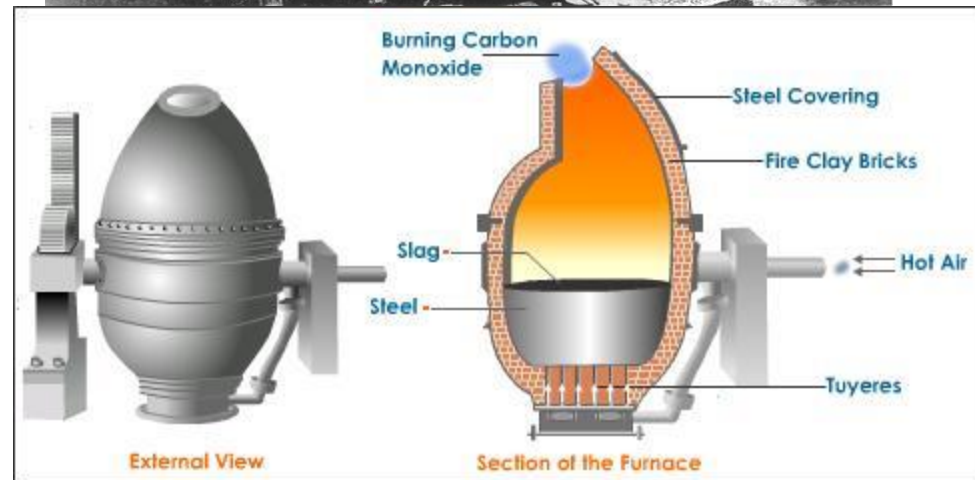
SOURCE: U.S. Census Bureau

## Growth of Cities, 1880–1900



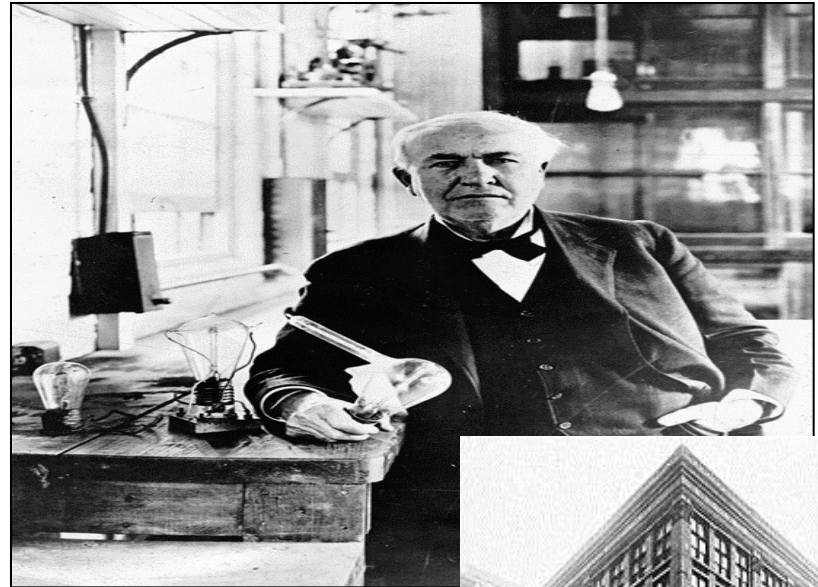
# Exploiting Natural Resources

- Oil
  - 1859- Drake successfully drills for oil in Pennsylvania:
- Steel
  - Bessemer process:
    - 1860s – replaced by open hearth process

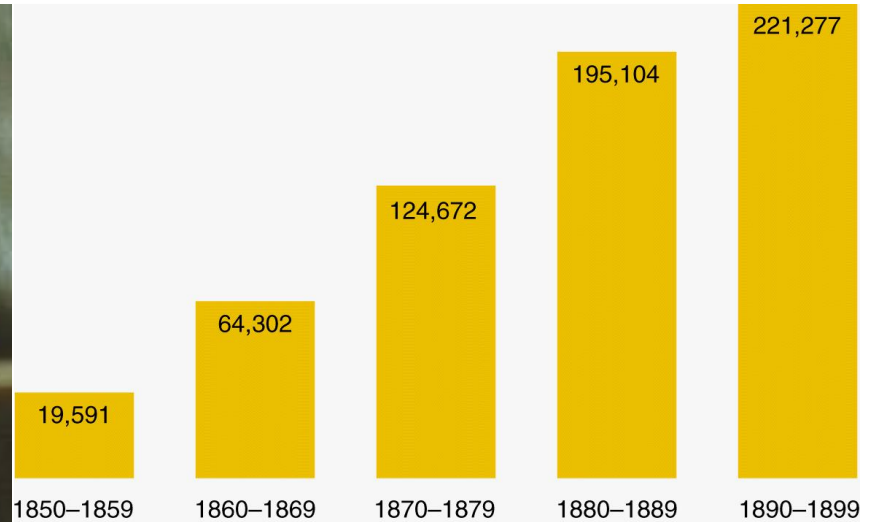


# Age of Invention

- Steel cable bridges:
- Skyscraper:
- Electricity
  - Thomas Edison
  - Menlo Park, NJ
    - 1<sup>st</sup> research lab
    - 1880 – incandescent light bulb



# Inventions Change Lives



# Section 2: The Age of Railroads



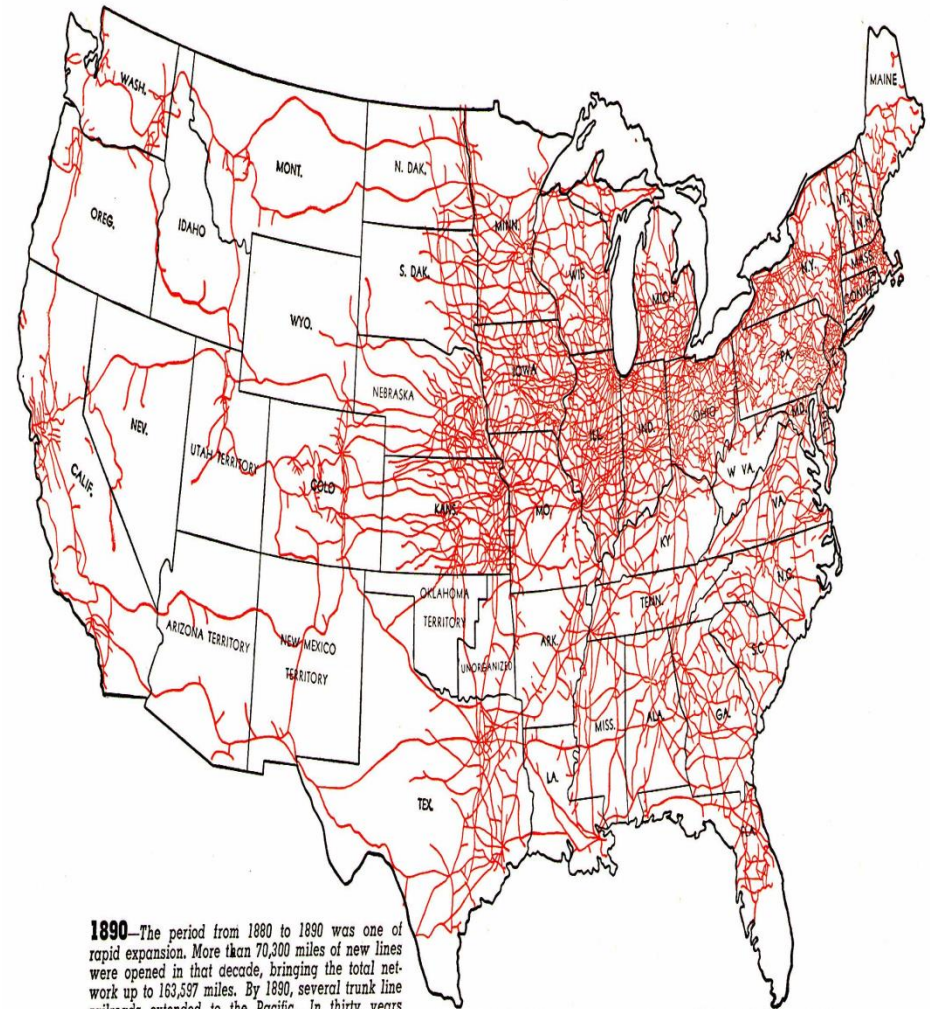
WOODHAVEN-HISTORIC

# Building the Railroads

- First Transcontinental RR :

– Nearly :

– Chinese and Irish:



**1890**—The period from 1880 to 1890 was one of rapid expansion. More than 70,000 miles of new lines were opened in that decade, bringing the total network up to 163,597 miles. By 1890, several trunk line railroads extended to the Pacific. In thirty years from 1860 to 1890, the total mileage of the region west of the Mississippi River increased from 2,175 to 72,389, and the population of that area increased fourfold.

# Rail Road Time

- Travel by rail complicates telling time
- 1869 – Professor Dowd’s plan
  - Divide U.S. :
  - Pictured: 1913 Map



# Railroads Transform the Country

- Promote Trade and Interdependence
  - Link previously isolated towns
  - New towns
  - Rise of specialization
- Company Towns
  - Pullman, Chicago:



# Pullman Strike - 1894

- Workers at the Chicago Pullman Car Co. struck in response to their :
- The ARU supported the strike by refusing to run trains carrying Pullman Cars
- In June 1894 a rally to support the strike turned violent
- Federal :
- Participants:



# Railroad Corruption

- Credit Moblier scandal
- Other Abuses:
  
- Rise of the Grangers
  - Farmers begin demanding government controls over RR's.



# Rise and Fall of the Grange

- Granger Laws
  - Get officials elected at state and local levels
  - Press for laws to protect interests
  - *Munn v. Illinois* – 1877
    - Supreme Court upheld Granger Laws 7-2.
    - Right of :

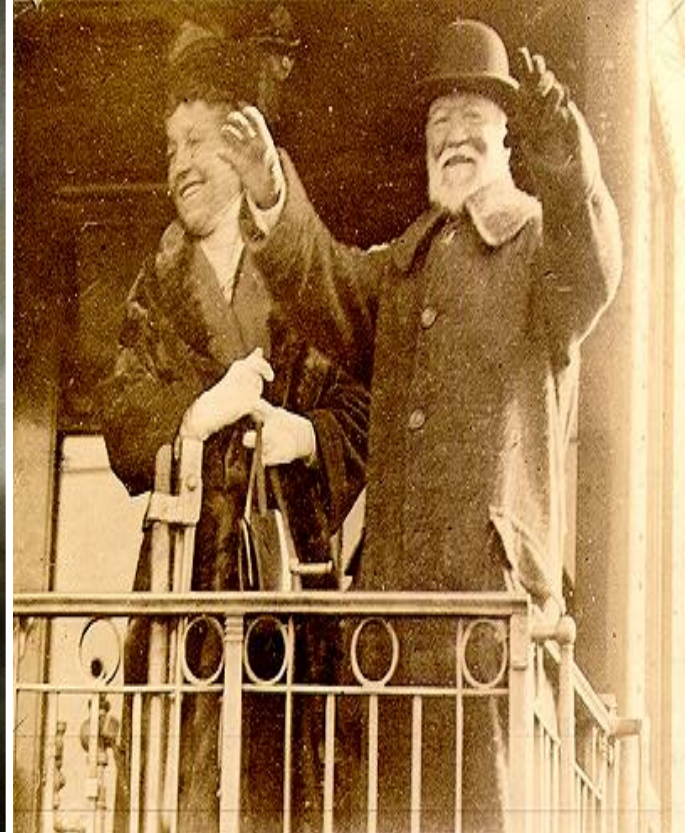
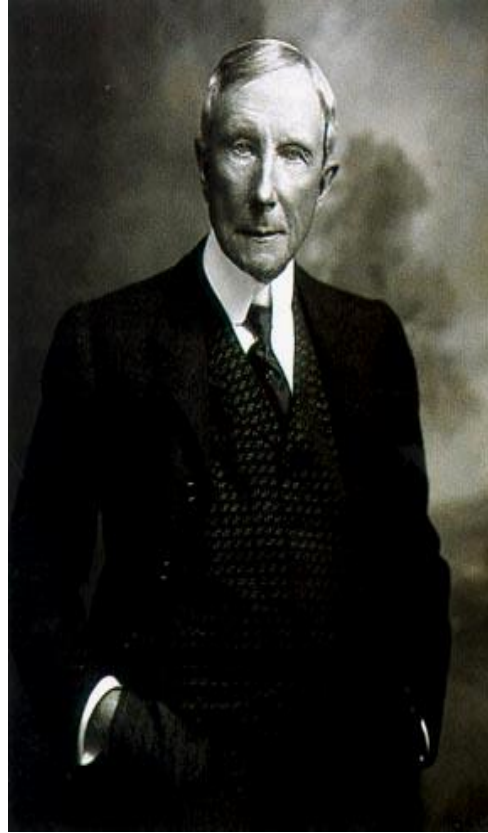


# Rise and Fall of the Grange

- Interstate Commerce Act – 1887
  - Re-established right of:
    - Est. ICC
      - Difficulty regulating railroad rates
      - 1897 – Supreme Court:
- RR Consolidation
  - Large companies acquire railroads in wake of 1893 panic & depression

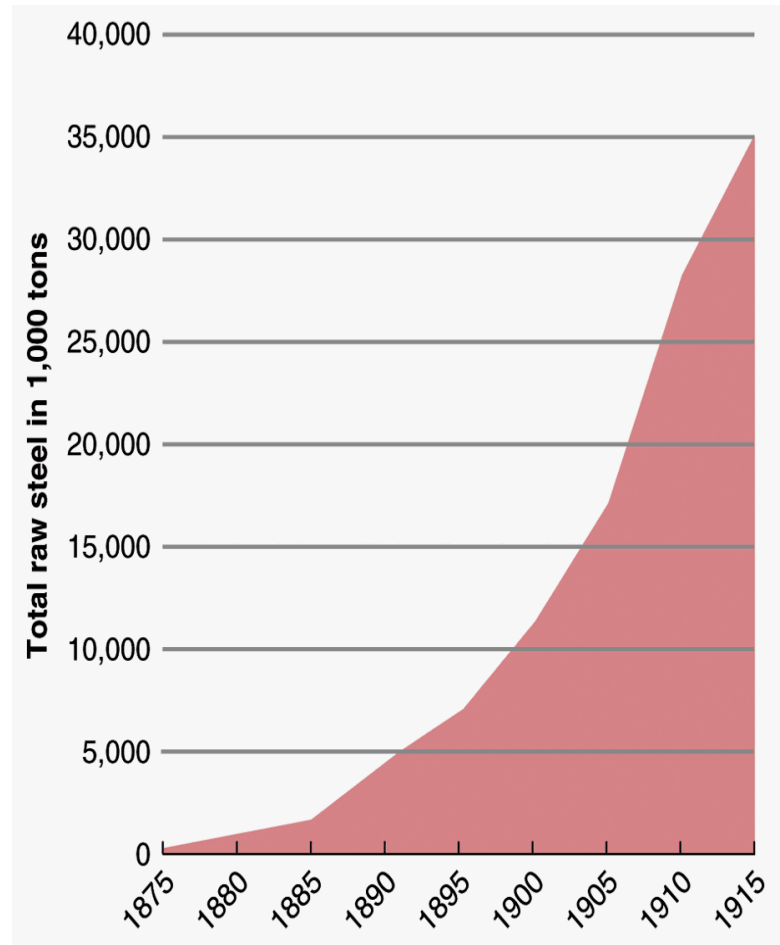


# Section 3: Big Business and Labor

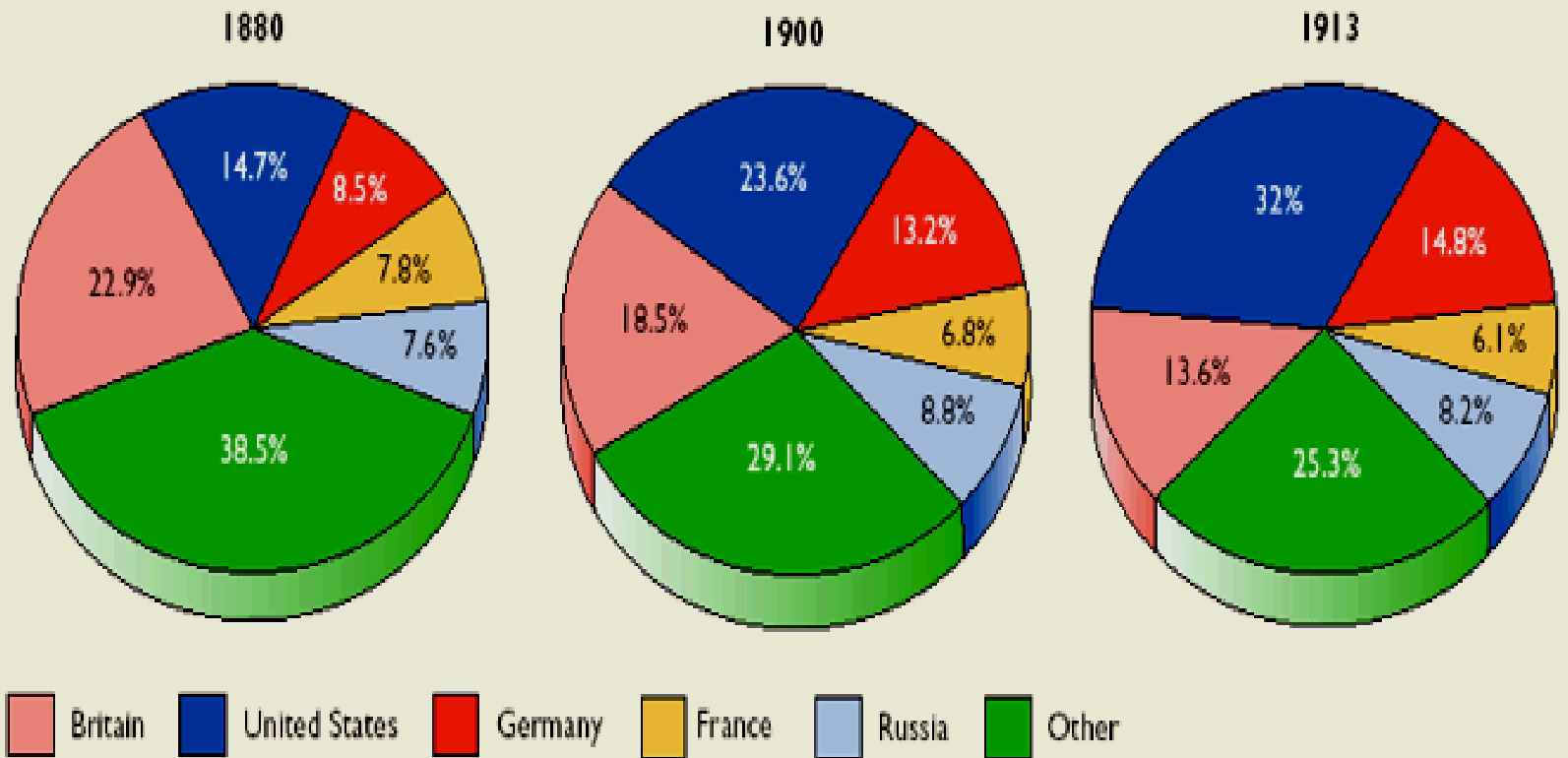


# Carnegie and Consolidation

- 1873 – Brings Bessemer process from England
- 1899 – Carnegie Steel = world leader
- Emphasis on Cost and Efficiency:

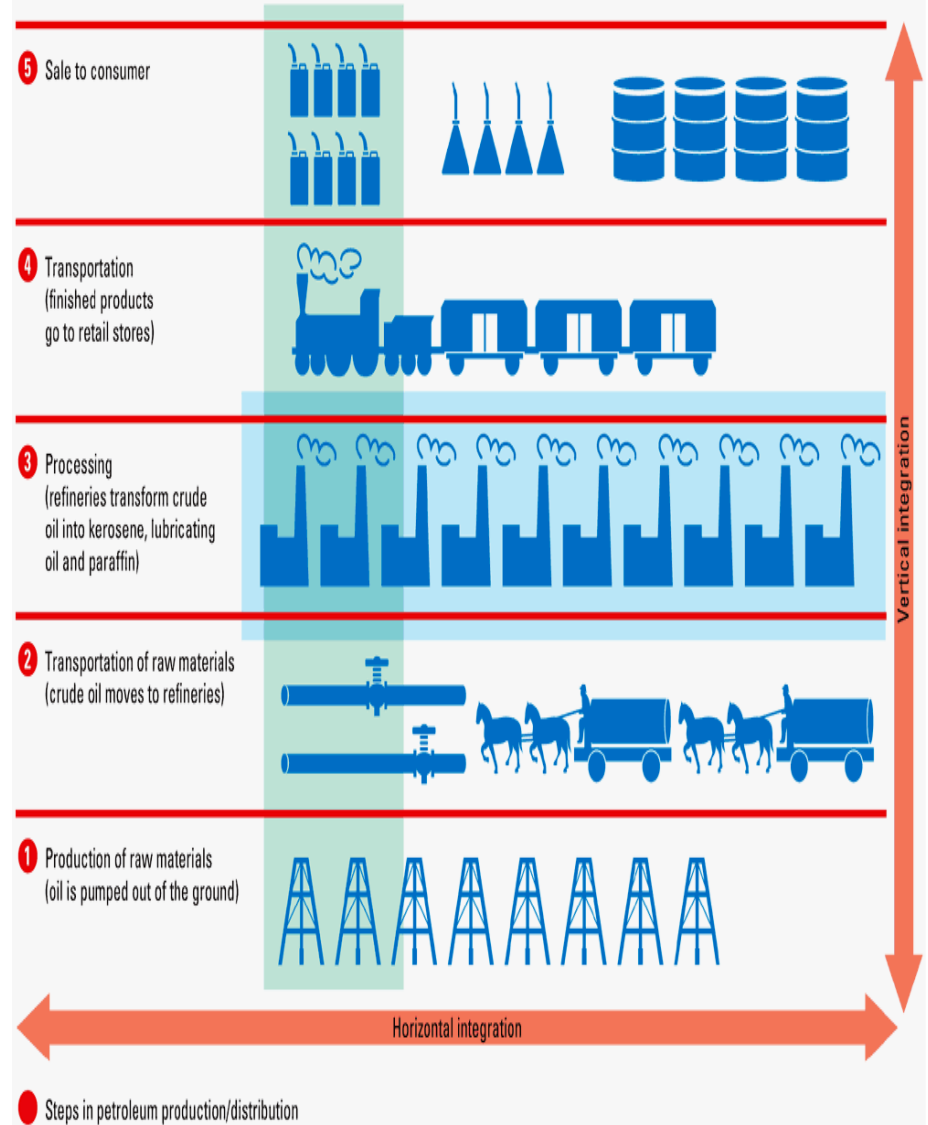


# Relative Share of World Manufacturing

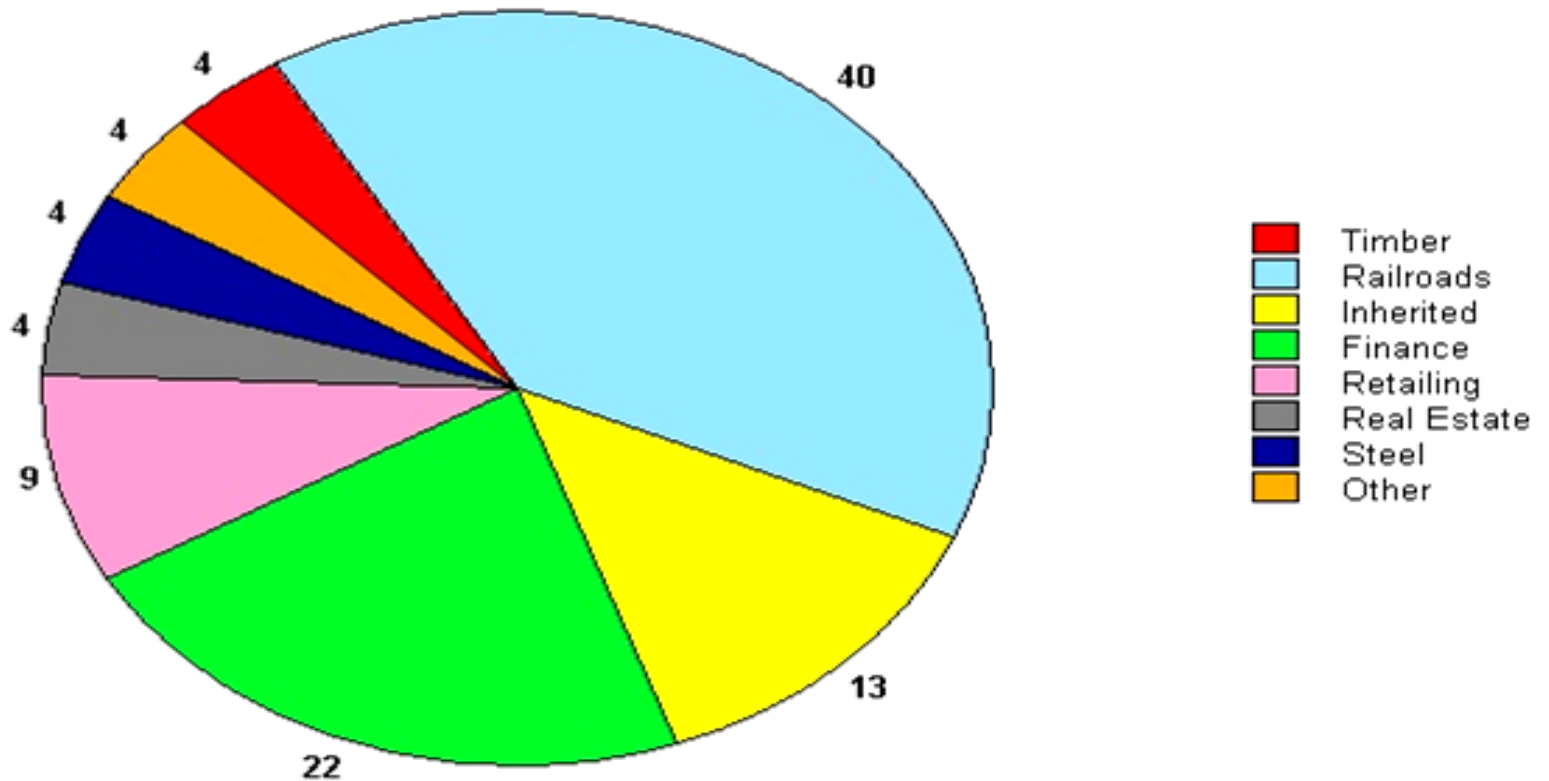


# Carnegie and Integration

- Vertical Integration
  - Control :
- Horizontal Integration
  - Buy :
- Social Darwinism
  - Herbert Spencer adapts natural selection to society
  - Economists use it to:
  - Appeals to newly rich

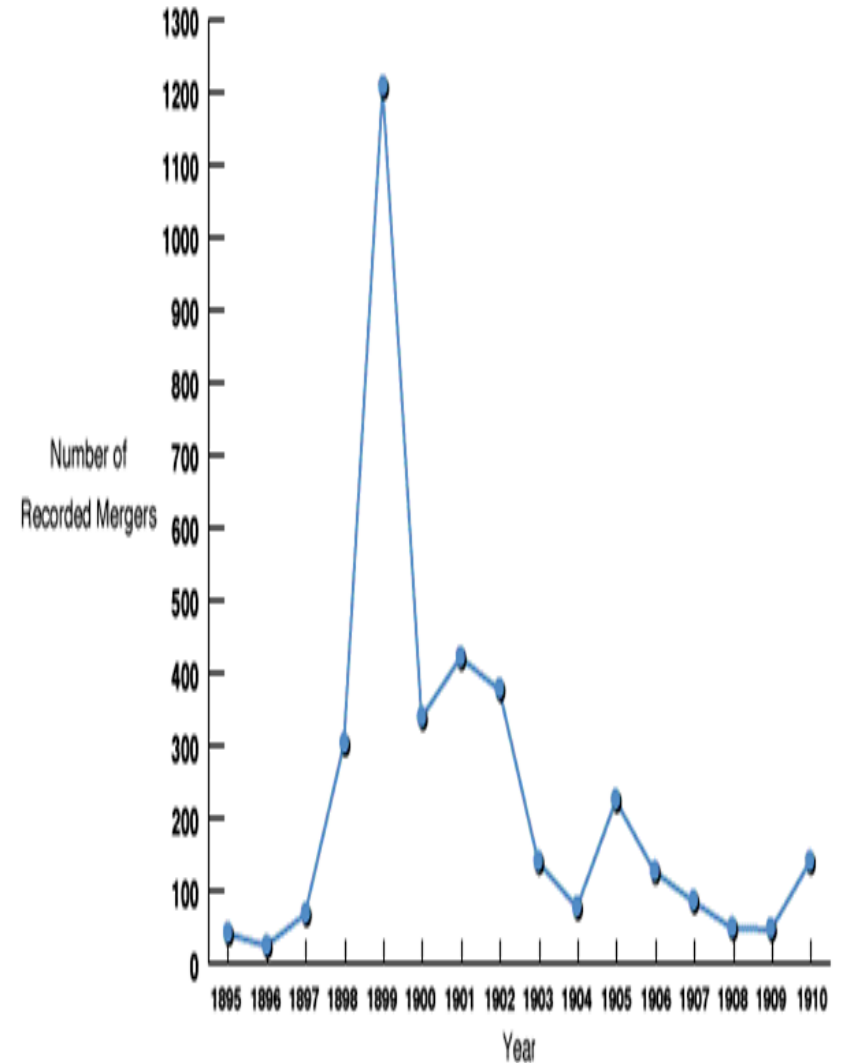


# % of Billionaires in 1900



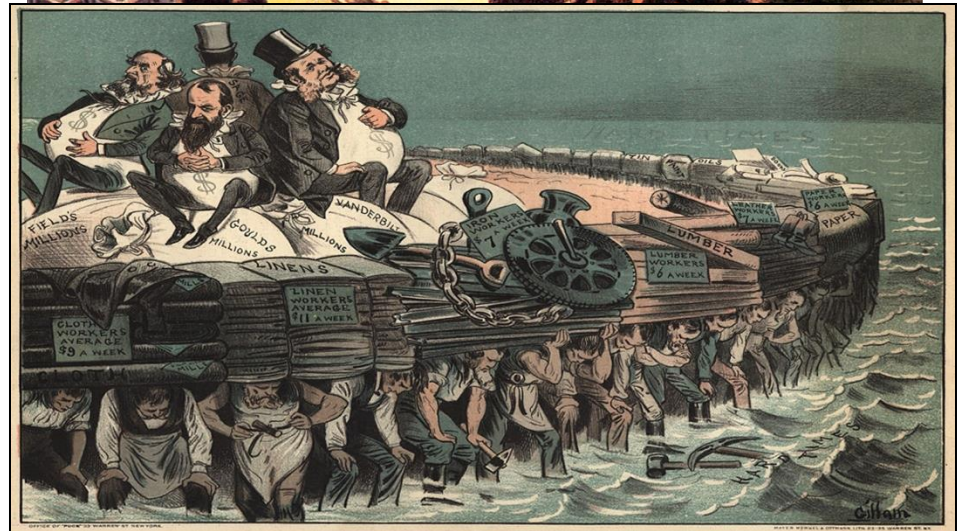
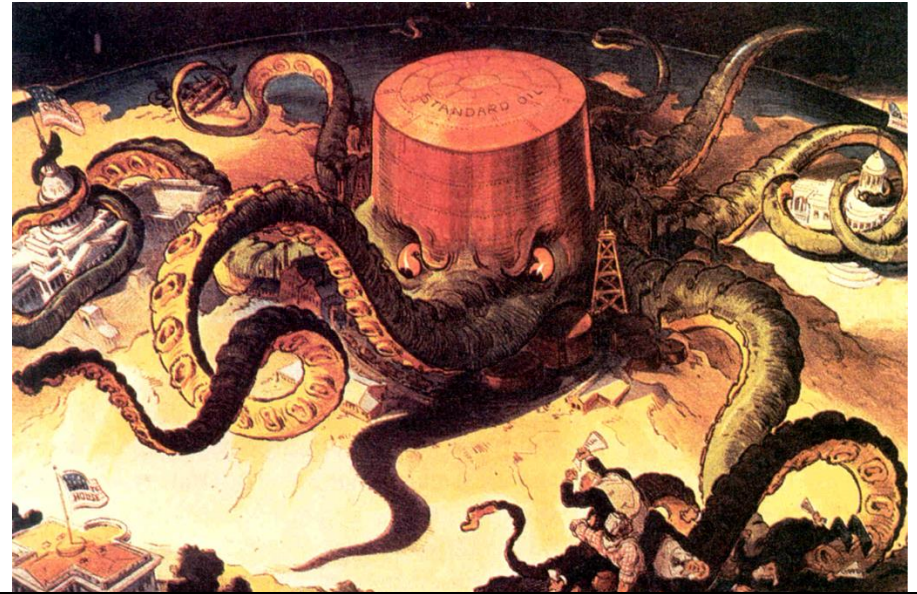
# Rise of Monopolies

- Merger
  - Stock buyout
- Holding Company
  - Company that:
- Trusts
  - Stock turned over to Trustees
    - Run :
  - Companies get profits earned



# Rockefeller and Standard Oil

- By 1890 Standard Oil = :
  - Low wages for workers
  - Undercut competitors = ↓ prices, then ↑ them
- Robber Barons:



# Gospel of Wealth - 1901

- \$ Wealth no longer looked upon as bad.
- \$ Viewed as a sign of God's approval.
- \$ Christian duty to accumulate wealth.
- \$ Inequality is inevitable and good.
- \$ Wealthy should act as "trustees" for their "poorer brethren."
- \$ Carnegie gave away 90% of his fortune, Rockefeller gave away \$500 million – fund research, education, arts



# Sherman Anti-Trust Act

- 1890 – Govt. made it illegal to form trust that interfered with trade.
- Proved :
  - No :



# Plight of Workers

- Problems Unite Workers
  - Low wages
  - Unsafe/unhealthy conditions
  - Long hours:



# Early Union Movement

- National Labor Union
  - 1866
    - 8 hour work day for govt. workers
- Knights of Labor – 1869
  - Open to:
  - Advocated:



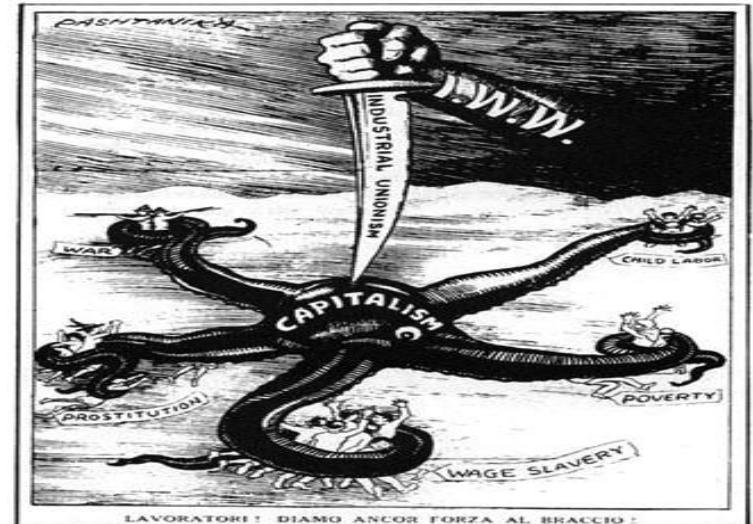
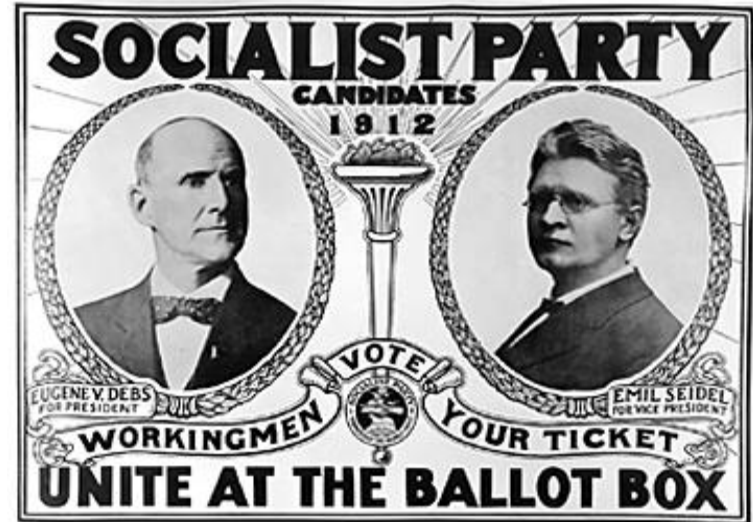
# American Federation of Labor

- Samuel :
- Skilled Laborers
- Collective Bargaining
  - Wages, hours, conditions
- Strikes:



# Debs and Socialism

- Eugene V. Debs
- Industrial Union
  - American Railway Union
- Socialism
  - Govt. :
  - Equal :
- Wobblies (IWW)
  - William Haywood
  - Skilled :
  - Included :

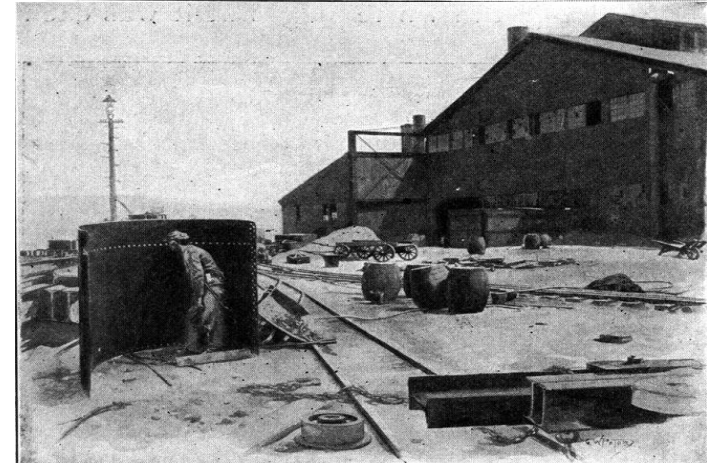
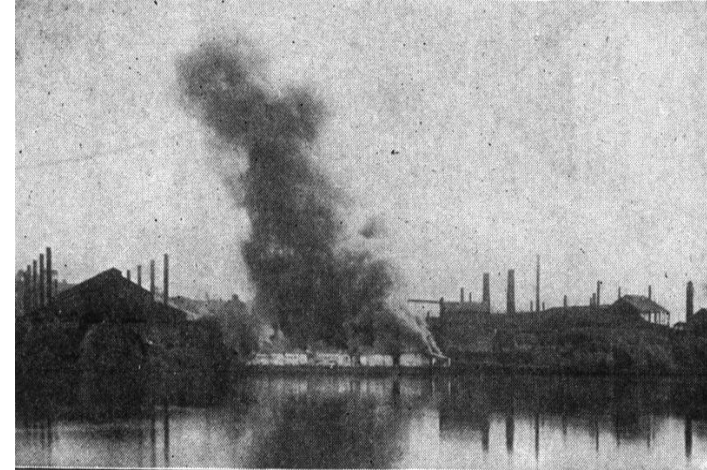
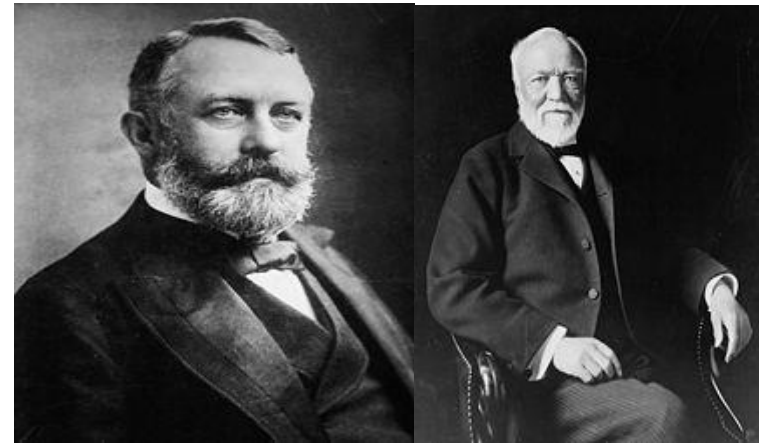


*Il Proletario*, an Italian-Language I.W.W. Newspaper, borrowed graphics from *Solidarity* and the *Industrial Pioneer*. The editor would usually add a caption in Italian. The above caption reads: "Workers! Give Me More Strength in my Arm!"



# Violent Strikes

- Homestead Strike - 1892
  - Carnegie Steel, PA
  - Henry Clay :
    - Pinkertons brought in
    - “Scabs”
    - Steelworkers launch:
      - PA National Guard reopens plant
      - Strike ends months later with:
        - Undermined :



# Women Organize

- Barred from many unions
- Demands:
  - Equality in :
- Mary Harris “Mother” Jones
  - March to :
- Pauline New-man
  - 1<sup>st</sup> female organizer of ILGWU
- Triangle Shirtwaist Fire



# Industrialists vs. Unions

- Employers restrict Unions
  - Deny :
  - Ban :
  - Discriminate:
- “Yellow Dog Contracts”
- Sherman Anti-Trust Act
  - Strikes branded:

DO NOT SIGN PETITIONS or STATEMENTS of ANY KIND

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**Pullman Porters and Maids**  
**ATTENTION!**

INTIMIDATION, COERCION, THREATS and FORCE were used in order to get porters and maids to vote in this election just closed. And now they are being insulted by certain “Stool Pigeons”, who are submitting the “YELLOW DOG CONTRACT” to you to sign, under the guise of a LOYALTY PETITION

You Are Not Disloyal If You Do Not  
Sign This Statement Or Petition

Attend A Special Series of Meeting to be held by the  
**CHICAGO DIVISION of BROTHERHOOD of SLEEPING CAR PORTERS at the Headquarters, 224 East 39th Street on the following dates:**  
Monday, November 14; Tuesday, November 15; Wednesday, November 16; Thursday, November 17; Friday, November 18, and Saturday, November 19, at 8:30 P. M.

The origination of this so-called LOYALTY CONTRACT and the methods used to bring it out will be revealed in detail at these meetings, as well as the subtle plans for holding another conference in a last desperate effort of the Company to defeat the Brotherhood.  
Come out and get this information as well as the facts about the success of the Brotherhood's Case which the “Stools” are desperately trying to discredit.

**EVERY BONA FIDE PULLMAN PORTER AND MAID IS WELCOME AT THESE MEETINGS.**

We will also reveal the desperate efforts made by the Company to stop the Brotherhood's Mass Meeting two weeks ago.

This Progressive Organization is steadily marching forward and the ravings of a few derelict “Stool Pigeons” cannot stop the onward march of the Pullman Porters toward a living wage and decent working conditions.

Read this CIRCULAR and pass it on to another PORTER.

M. P. WEBSTER, Division Organizer  
GEO. W. CLARK, Division Sec-Treas

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**DO NOT SIGN THE**  
**“YELLOW DOG CONTRACT”**