THE EXPANSION OF INDUSTRY

A NEW INDUSTRIAL AGE

HOW DID THE DEVELOPMENTS IN OIL, STEEL, & ELECTRICITY CHANGE INDUSTRY IN THE CITIES?

Guiding Question

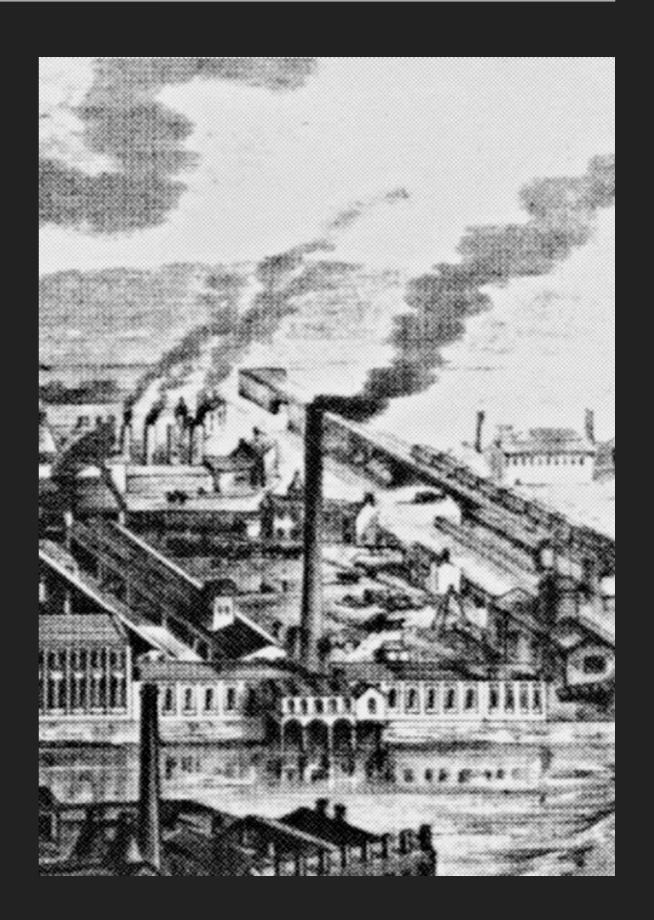
THE GROWTH OF INDUSTRY

By 1920s, the U.S. is the world's leading industrial power due to:

1: wealth of natural resources

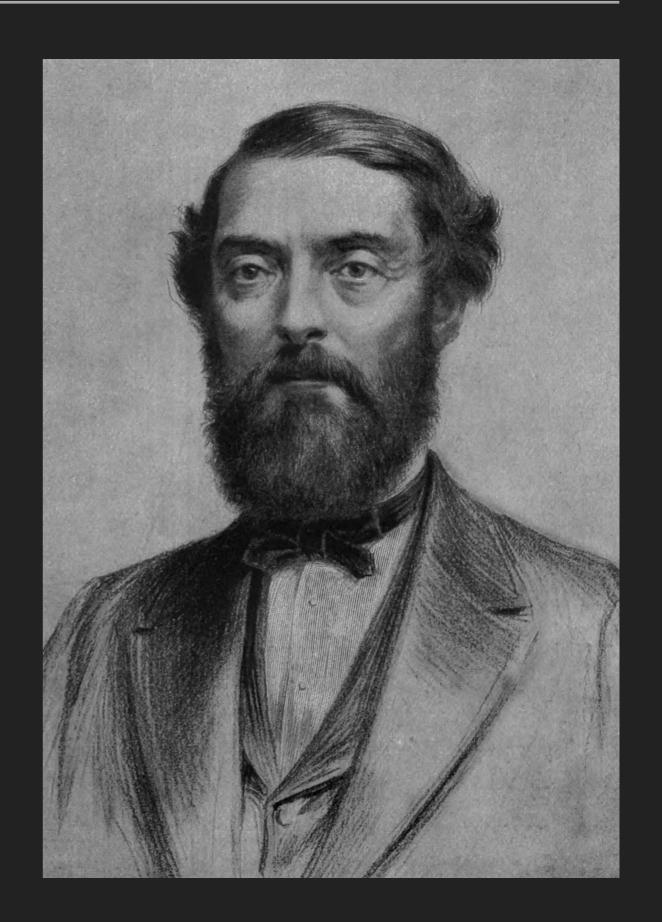
2: government support for business

3: growing urban population



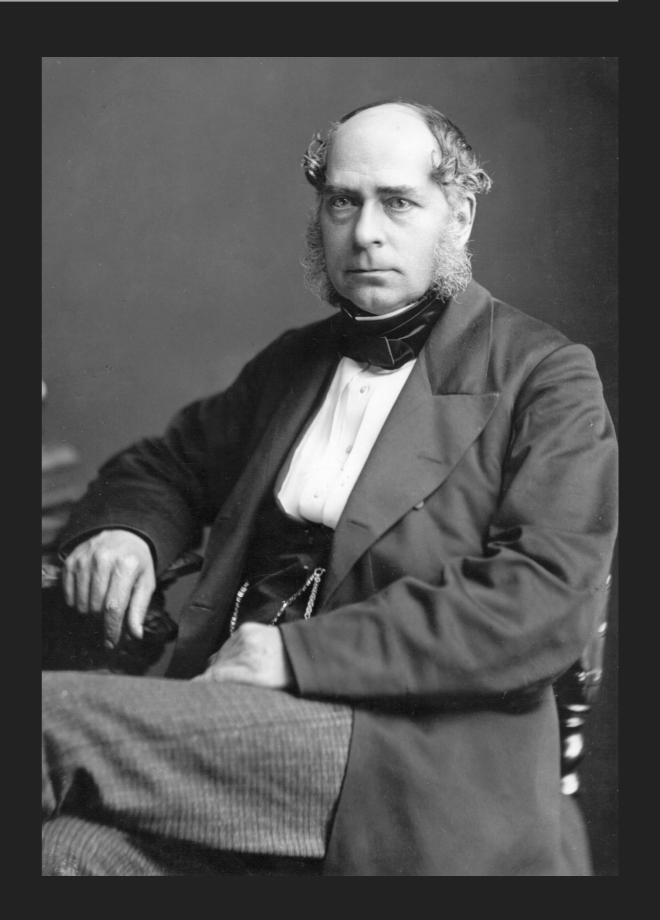
OIL

- Seen as "black gold;" high valuable
- 1859, Edwin L. Drake successfully uses steam engine to drill for oil
- Petroleum-refining industry first makes kerosene, then gasoline



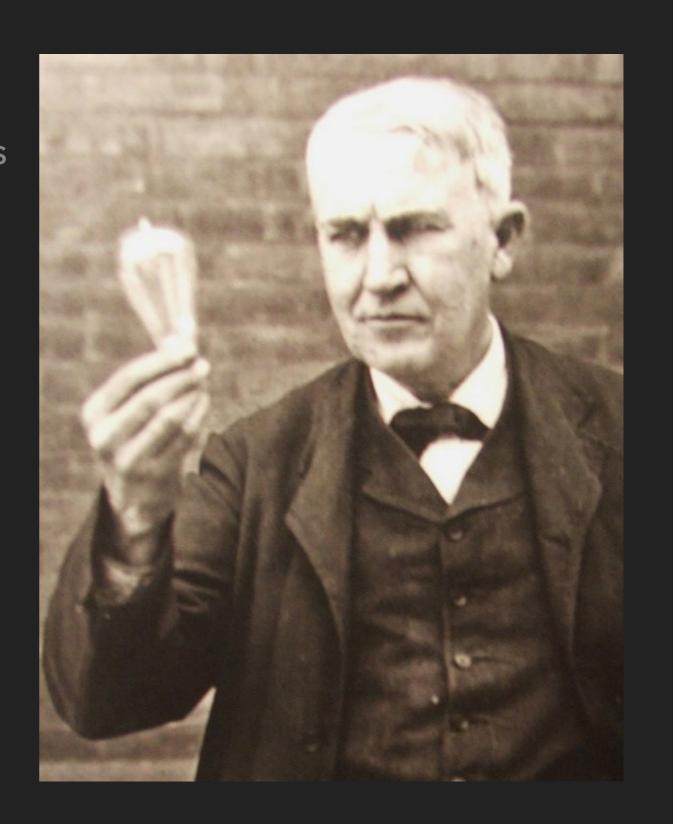
STEEL

- Abundant deposits of coal, iron spur industry
- Bessemer process puts air into iron to remove carbon to make steel
- Made steel from scrap or raw materials



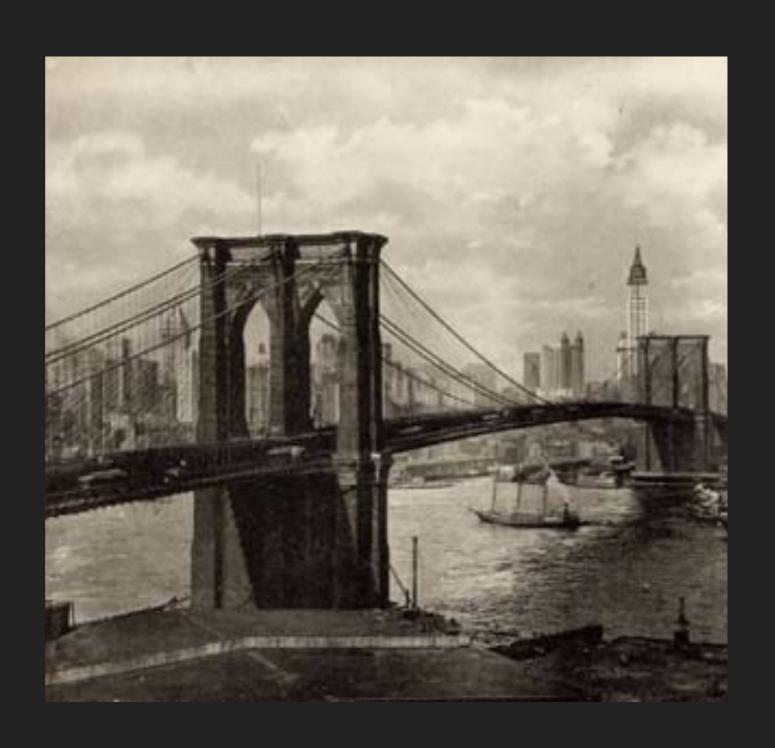
ELECTRICITY

- ▶ 1876, Thomas Alva Edison invents lightbulb & creates system for electrical production, distribution
- Electricity changes business; by 1890, runs numerous machines
- Allows manufacturers to locate plants anyplace; industry grows



NEW USES FOR STEEL & ELECTRICITY

- Steel: used in railroads, barbed wire, farm machines, bridges (Brooklyn Bridge), & skyscrapers
- Electricity: runs machinery available in homes, plants/ factories can be located anywhere & run numerous machines



THE INDUSTRIAL EAST

THE RAILROAD

HOW DID THE DEVELOPMENT OF THE RAILROAD CHANGE THE UNITED STATES?

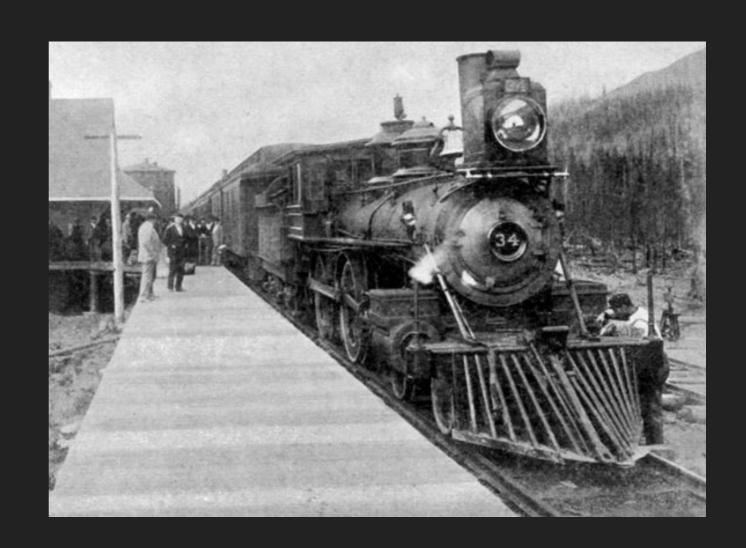
Guiding Question

- RR sells government land to businesses, not settlers
- Fixed prices keep farmers in debt
- Charge different customers different rates

FARMERS LAND TAKEN OVER

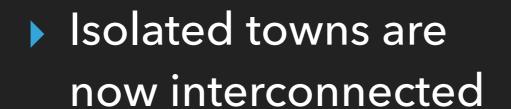
NEW NATIONAL MARKETS

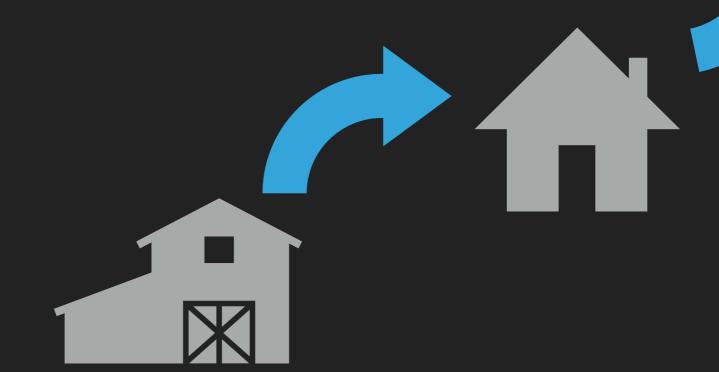
- Iron
- Coal
- Steel
- Lumber
- Glass



UNIFIED TRAVEL

Transportation west is reliable & possible





STANDARDIZED TIME

- 24 time zones around the world
- Created by C.F. Dowd



GOVERNMENT REGULATION

- Land grants & loans given to railroad from the government (gov-nt encourages RR growth)
- Munn v. Illinois = states' rights to regulate RR
- Interstate Commerce Act = federal government supervises RR activity

NEW CITIES



- Pullman, Illinois
- Provides housing, doctors, shops, sports field, etc.
- Controls residents to control workforce

RAILROAD CONSOLIDATION

- 7 companies control two thirds of all RR in the United States
- Decreases competition
- Monopoly

Crédit Mobilier =overpay for layingtrack; pocket profits

GREED & CORRUPTION