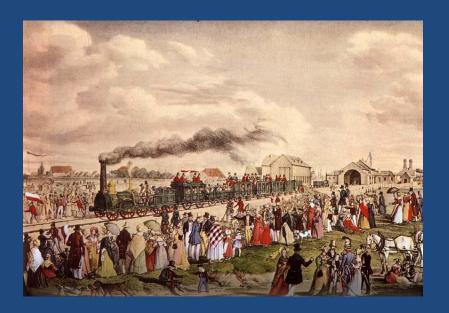
The Industrial Revolution Phase #1

Agenda:

1. Causes of the Industrial Revolution Notes

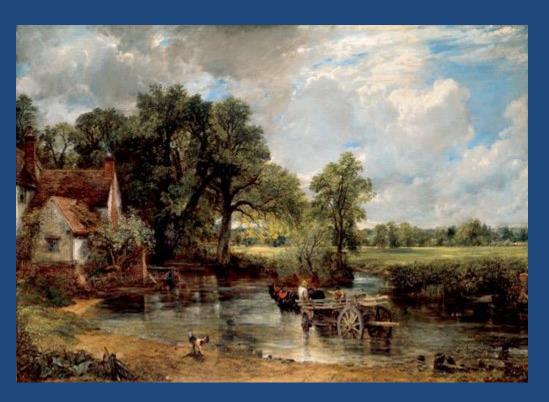


Today's Goal:

- Analyze the causes for the Industrial Revolution
- Understand why it began in Great Britain

Before 1750

- Life was primarily rural
- Short life expectancy
 - Men 31 years
 - Women 33 years
- Feast and famine
 - Availability of food depended on success of crops every year
- Limited trade
 - (because of transportation)



Causes of the Industrial Revolution

- Agricultural Revolution → More food
 - Enclosure movement → unemployed farmers
- Population Growth
 - Unemployed farmers → labor force for factories
- New Technologies → Steam & Coal
 - Transportation, powered industries
- Remind you of anything?

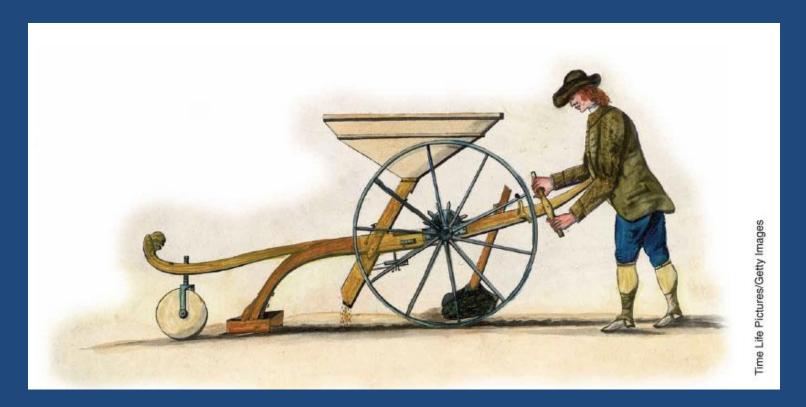
Agricultural Revolution

- Agricultural Revolution made the Industrial Revolution possible
- Agricultural Revolution:
 - Drastically improved farming
 - Made it possible for fewer people to produce food for many more people



New Farming Technologies

- New technologies like the Seed Drill added farming.
- Fertilizer was invented



Agricultural Revolution

- Made possible by:
- 1. Enclosures: Large farms with better seeding and harvesting methods
- 2. Crop Rotation: Changing crops every year to improve the land
- 3. Livestock Breeding Improvements: Only breeding best animals

Results of the Agricultural Revolution

- Improved food production
- Surplus of food!

 Why do you think a surplus of food is a cause of the industrial revolution?



Beginnings of Industrial Revolution

- 1st phase:
 - Began in England mid1700's
- Prediction!
 - Why England?



ENGLAND

England had all the factors of production:

– Land

Bountiful natural resources

Labor

Displaced farmers, growing population

Capital

Wealth – money to invest in industry



Land

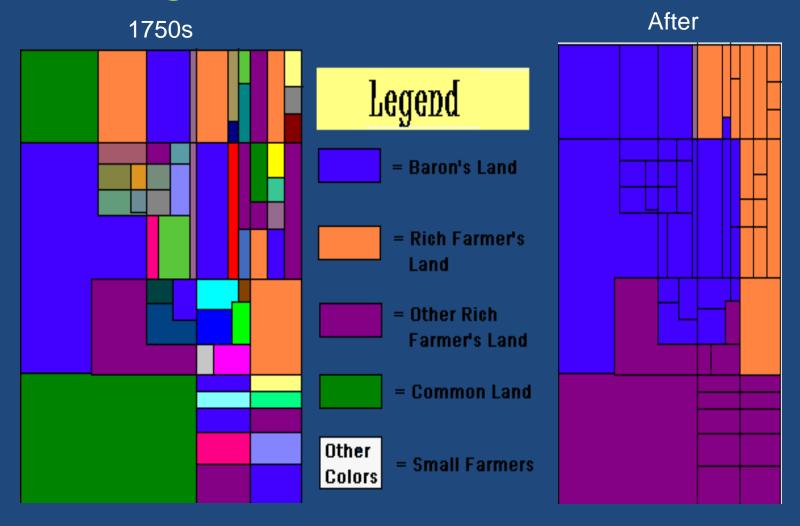
- Britain had an abundance of natural resources
 - Resources: iron ore, coal, etc.
 - Water power and coal to fuel machines
 - Rivers/Canals for transportation and accessibility for trade
 - Sea: able to transport goods cheaply because they was good access to sea ports all around the Island

Labor

- The Agricultural Revolution had increased England's population
 - Greater food supply = population increase
- 1700's European population reaches 190 million
 - People eat better, healthier babies, better medical care
- Unemployed Farmers lost enclosed lands → moved to cities; need jobs!

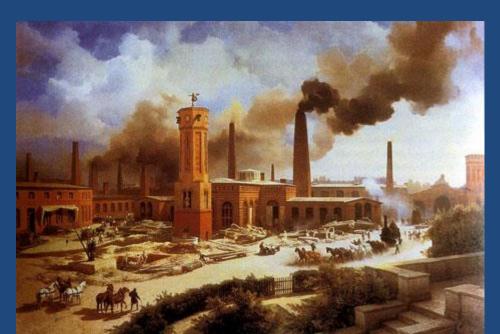
Enclosures

 Fencing off large tracts of land making farming more efficient



Capital

- Money to invest in labor, machines and raw materials.
- Entrepreneurs brought together labor, capital and raw materials – took risks



Inventions

- New inventions drive Industrial Revolution
 - Textile Industry
 - Flying shuttle and spinning jenny
- Steam Engine
 - Power for industry
 - Power for trains and boats



Textile Industry

- Inventions speed production of textile goods!
 - Demand for textile goods high, inventors, needed to invent to machines to speed up the process.
 - Flying Shuttle: Weaving machine
 - Spinning Jenny: Spun many threads at the same time; hand-powered
 - Water Frame: spinning machine powered by water.

Railroad System

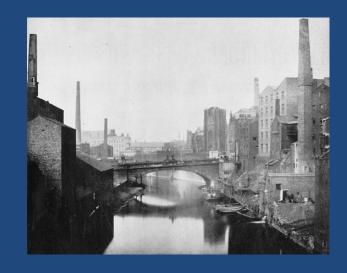
Four major impacts:

- 1. Spurred growth of industry
- 2. Created jobs
- Boosted farming/fishing industries
- 4. New way for people to get around



Rise of cities

- Industrial Revolution gave rise to urbanization
 - Rapid growth of cities



- Fun fact:
 - The number of European cities with populations
 100,000+ more than doubled between 1800-1850

Factories and growth of cities

- New large machinery needed new large building to fit into.
- Most factories were built close to energy sources
 - Water
 - Coal
- Industrial centers emerge