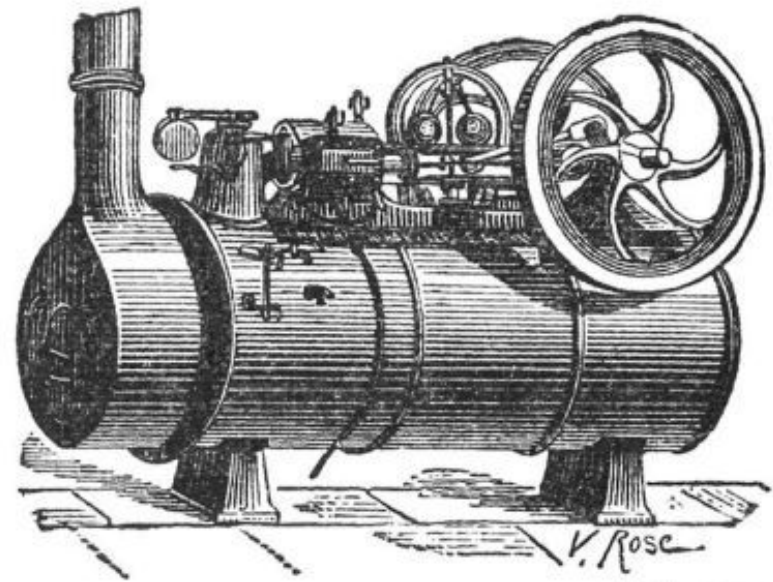
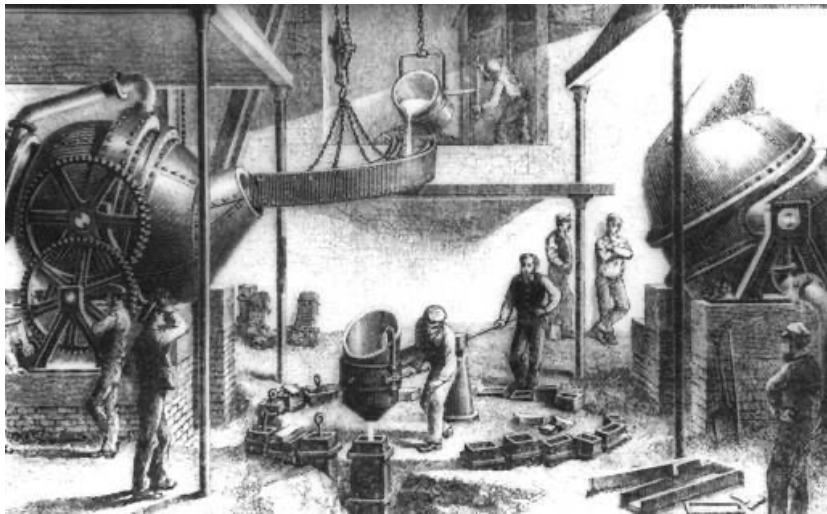


Industrial Revolution

Iron and Steam



Steam engine

- Became more prevalent during the late 1700s
- Powered machines
 - looms
- Increased demand for coal

Iron

- Puddling
 - Developed by Henry Cort
 - Used coke (derived from coal) to burn impurities out of iron
- Better iron = cheaper = more uses
 - Wrought iron
 - Buildings, railroads, machines

Railroads

- Richard Trevithick built first steam locomotive in 1801
- First public railway line opened in 1830
- By 1850 more than 6,000 miles of railway had been laid in Britain.

Economic Benefits of Railroads

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Economic Benefits of Railroads

- New jobs
- Lower priced goods
- Demand for more goods
- Demand for more machines
- More profits to be reinvested into businesses

Industrialization spreads

- Europe
 - Belgium, France, German states
 - Governments provided money for railroads, canals, and roads

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- Europe
 - Belgium, France, German states
 - Governments provided money for railroads, canals, and roads
- United States
 - Robert Fulton builds first steam powered paddle boat
 - By 1860 30,000 miles of railways ran across US

Consequences of Industrialization

- Population increased
 - Better food = resistance to disease
- Famine and Poverty
 - Migration of peoples
- Urbanization
 - Rapid growth
 - Horrid conditions

Consequences of Industrialization

- New Social Classes
 - Industrial capitalism
 - Industrial middle class
 - those who built the factories, bought the machines, developed markets
 - Industrial working class
 - Wretched working conditions
 - No security of employment

Consequences of Industrialization

- Early Socialism
 - Socialism = system in which society, usually in the form of the government, owns and controls the means of production
 - Poor working and living conditions
 - Utopian Socialism = people would show natural goodness when in a cooperative environment