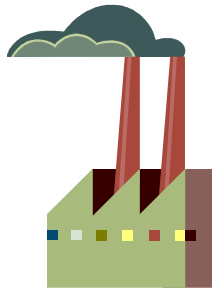


# Industrial Revolution



**Dramatic changes** took place in the following areas:

Clothing production (wool and cotton)

    Mechanized cotton and wool looms

Railroad

Coal and steam power

    Replaced reliance upon wood and running water as power sources

Metals (Iron and Steel)

The IR was a **self-perpetuating spiral**

    Trains consumed huge amounts of coal, iron, and steel, and could carry coal and other products anywhere

    Metals industry needed huge amounts of coal (in the smelting process), and provided material for construction of engines that could harness steam power

    Coal provided fuel for trains and smelting, and any other factory—which made them all independent of water and wood power sources

- Mechanized production was ideal for mass-market goods, which tended to be good for middle-income people, who could now afford many products that were previously too expensive. Their consumption of these goods drove producers to make even more, and the process went on and on....

**Military advances**

- Advances in the use of steam power and metals, created ironclad ships with powerful guns that were not reliant upon tides or winds, and could not be defeated by wooden ships
- Created (or furthered) an impassable gulf between the military power of wealthy nations and that of poor nations—steam ships and metal-plated ships with powerful guns demolished piracy as well as the armed forces of poorer nations