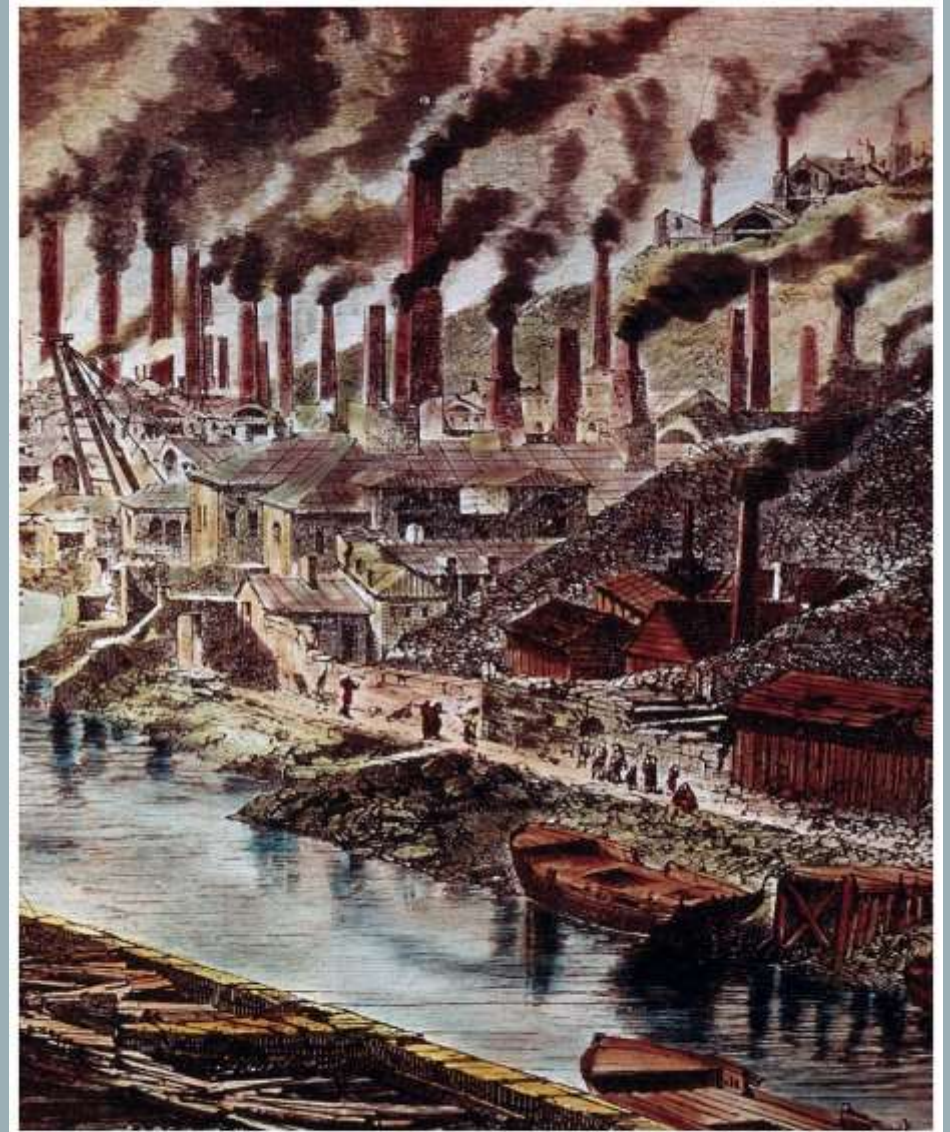


EXPLAINING THE INDUSTRIAL REVOLUTION

GUIDING QUESTION:
IDENTIFY THE CAUSES
OF THE INDUSTRIAL
REVOLUTION



Industrial Britain
Vivian's copper foundry, Swansea, Wales, engraving by Durand-Brager/Bibliothèque des Art décoratifs, Paris, France/Gianni Dagli Orti/The Art Archive at Art Resource, NY

Chapter 17, *Ways of the World: A Brief Global History with Sources*, Third Edition

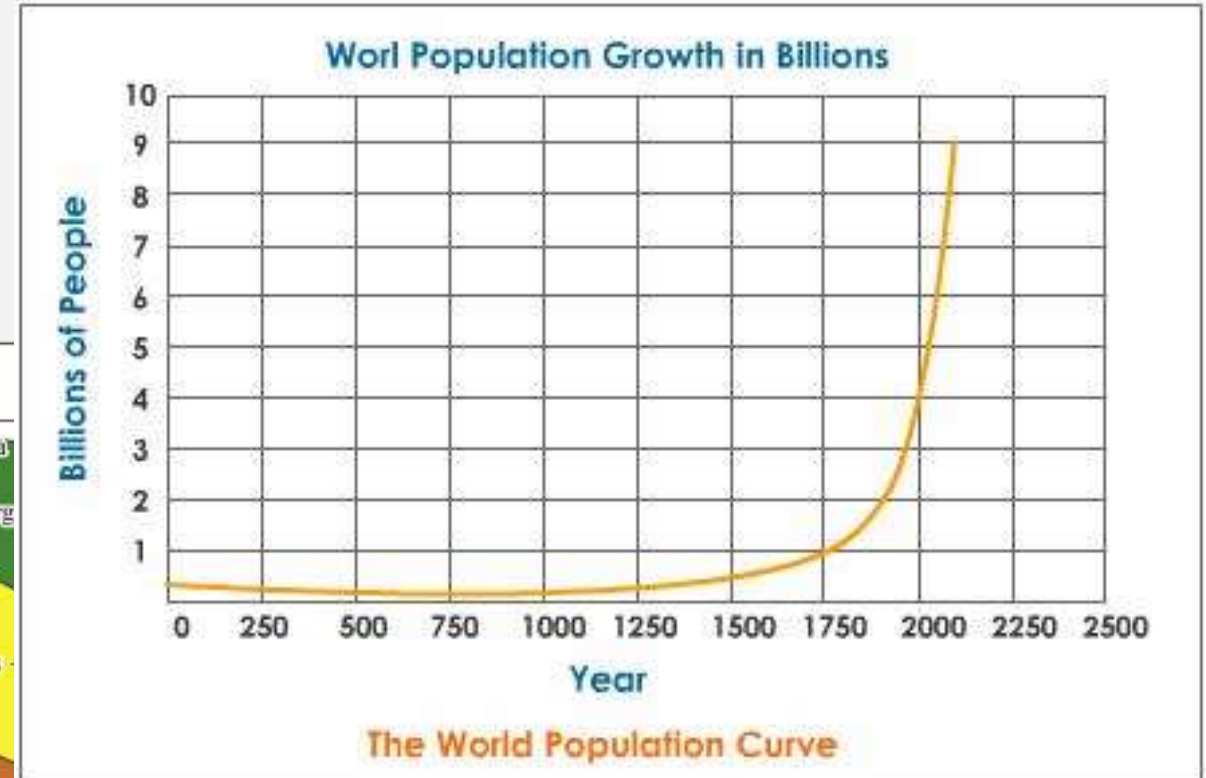
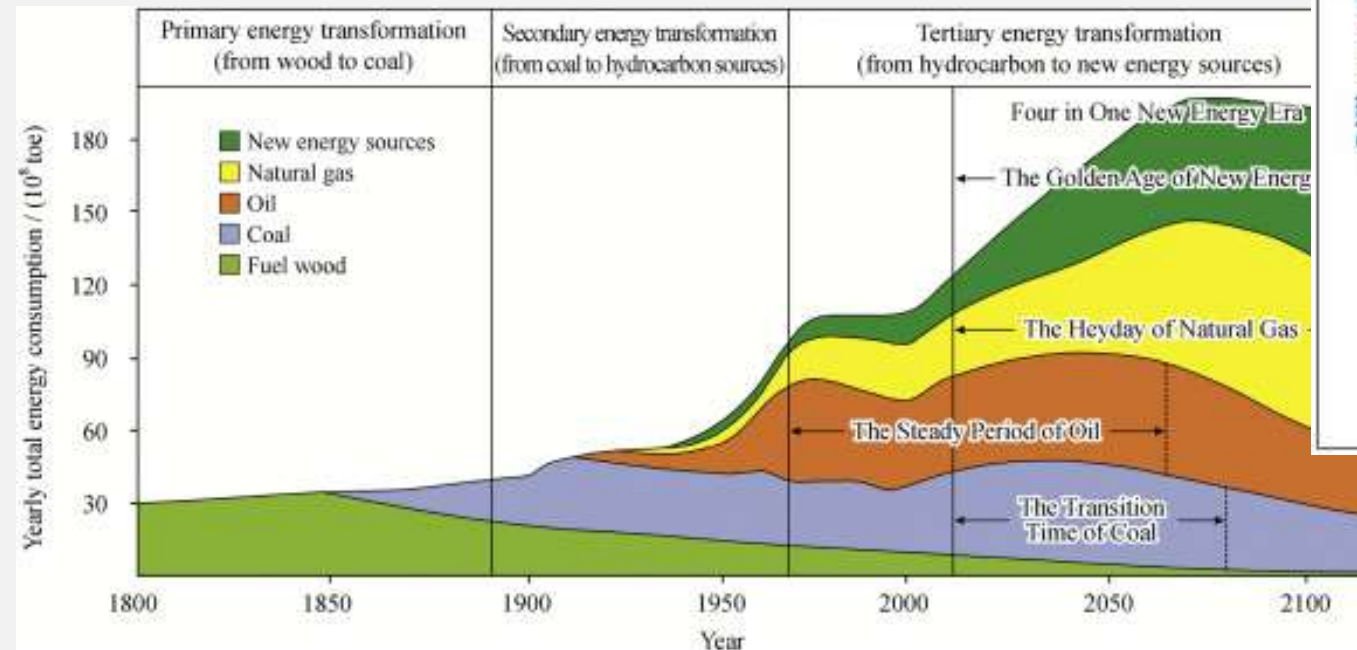
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I. SIGNIFICANCE OF THE INDUSTRIAL REVOLUTION

A. FUNDAMENTAL CHANGES TO HUMAN WAYS OF LIFE

- POPULATION BOOM
- ENERGY CRISIS





I. SIGNIFICANCE OF THE INDUSTRIAL REVOLUTION

B. TRANSFORMED RELATIONSHIP BETWEEN HUMANS AND THE NATURAL WORLD

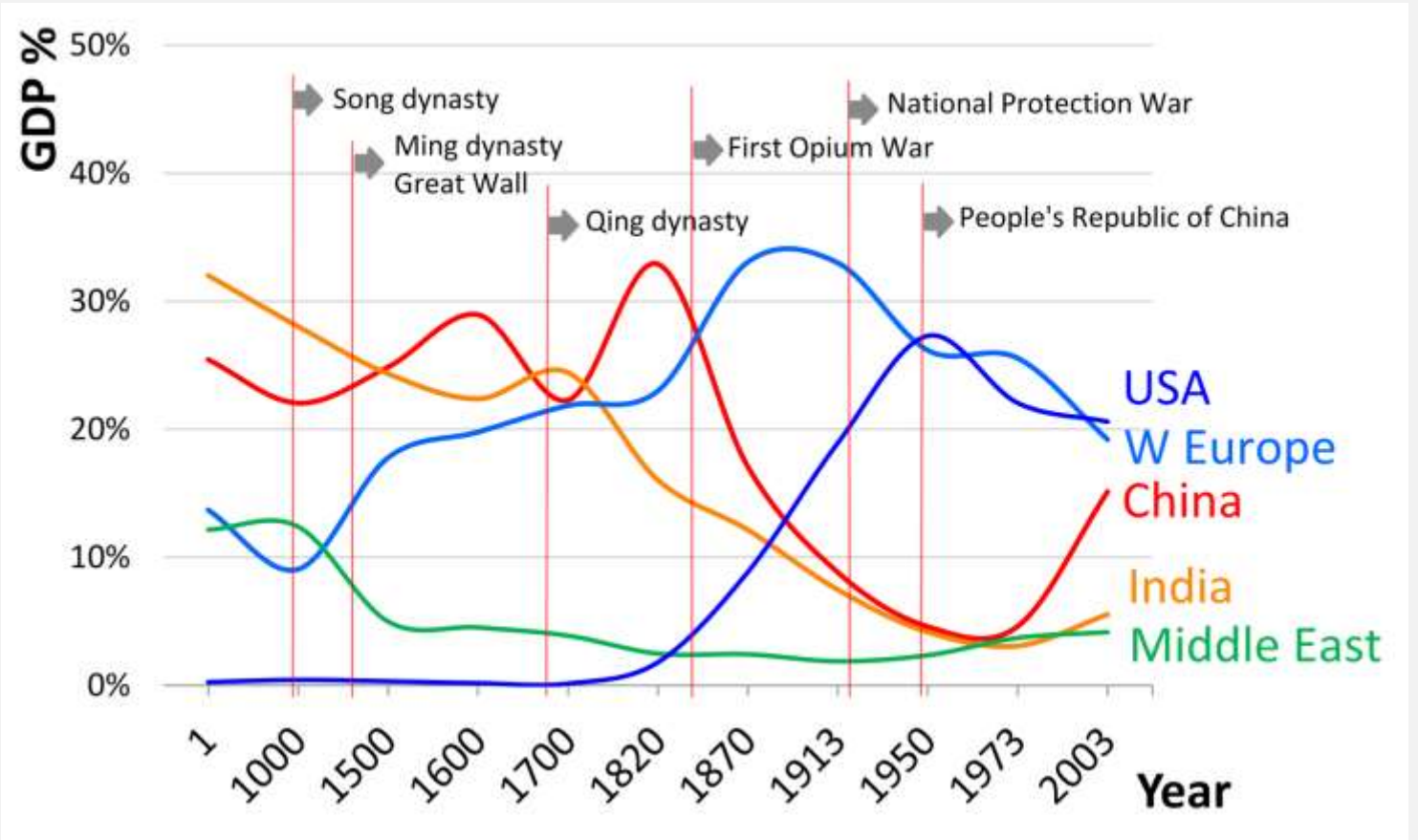
- EXTRACTION OF RESOURCES
- ALTERATION TO LANDSCAPE
- POLLUTION



I. SIGNIFICANCE OF THE INDUSTRIAL REVOLUTION

C. CONTINUITIES

- EUROPEAN GLOBAL DOMINANCE
- TECHNOLOGICAL BREAKTHROUGHS AMID POLITICAL STABILITY



I. SIGNIFICANCE OF THE INDUSTRIAL REVOLUTION

D. COMPARISONS

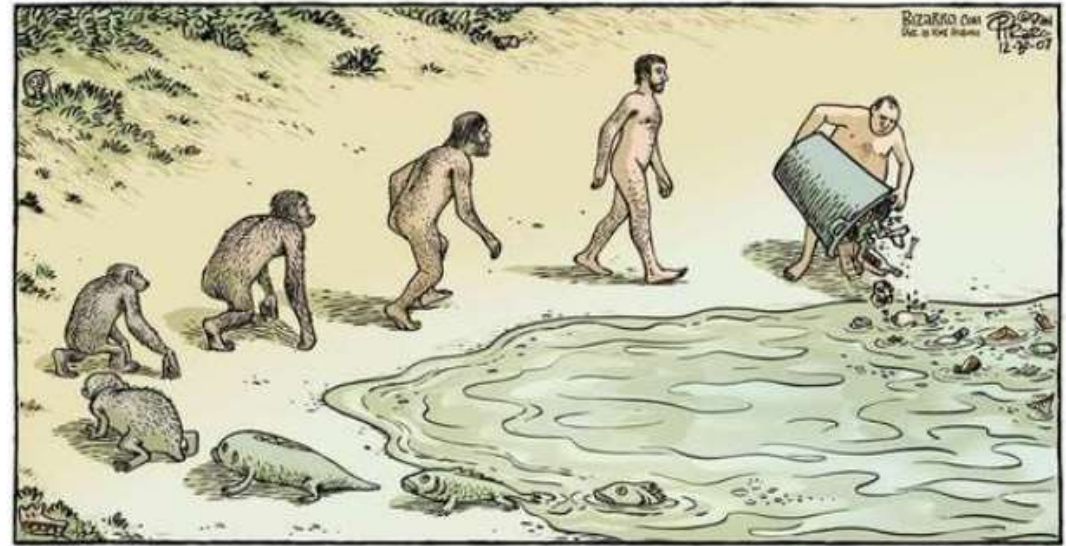
- NEOLITHIC REVOLUTION
- OTHER FORCES
 - EX. CHRISTIANITY, DEMOCRACY, CAPITALISM



II. HISTORICAL CONTEXT – WHEN?

A. 1750 – 1900

B. ANTHROPOCENE =
AGE OF MAN



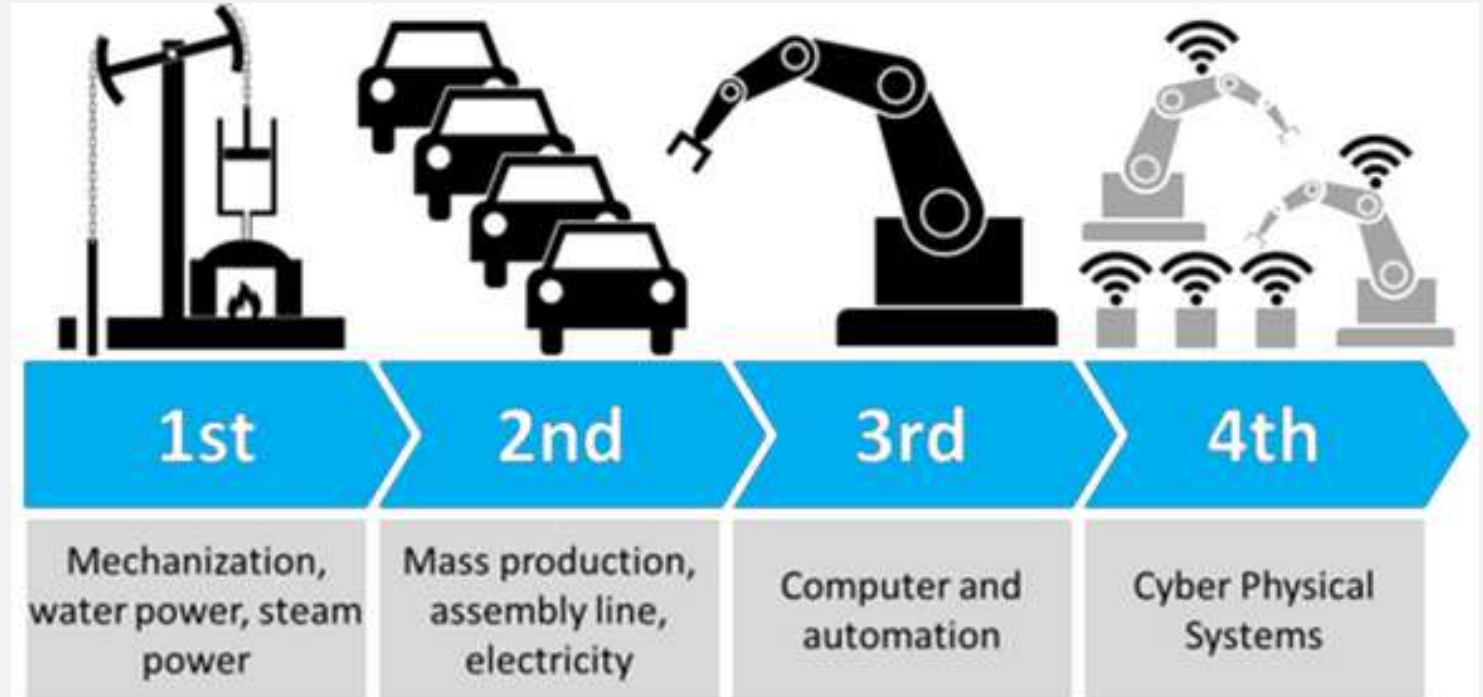
Welcome to the Anthropocene

II. HISTORICAL CONTEXT – WHEN?

C. AGRICULTURE, TEXTILES, STEAM, IRON, STEEL

D. 2ND INDUSTRIAL REVOLUTION

- Appx. 1870 – 1914
- Electricity, petroleum, communication



II. HISTORICAL CONTEXT – WHEN?

E. CONNECTION TO POLITICAL REVOLUTIONS

- Enlightenment ideals of independence and equal opportunity applied to Economic issues
- Political Stability and Reform supported economic growth
- Shared goals of societal progress and efficiency



"False alarm — it's just
an *industrial* revolution."

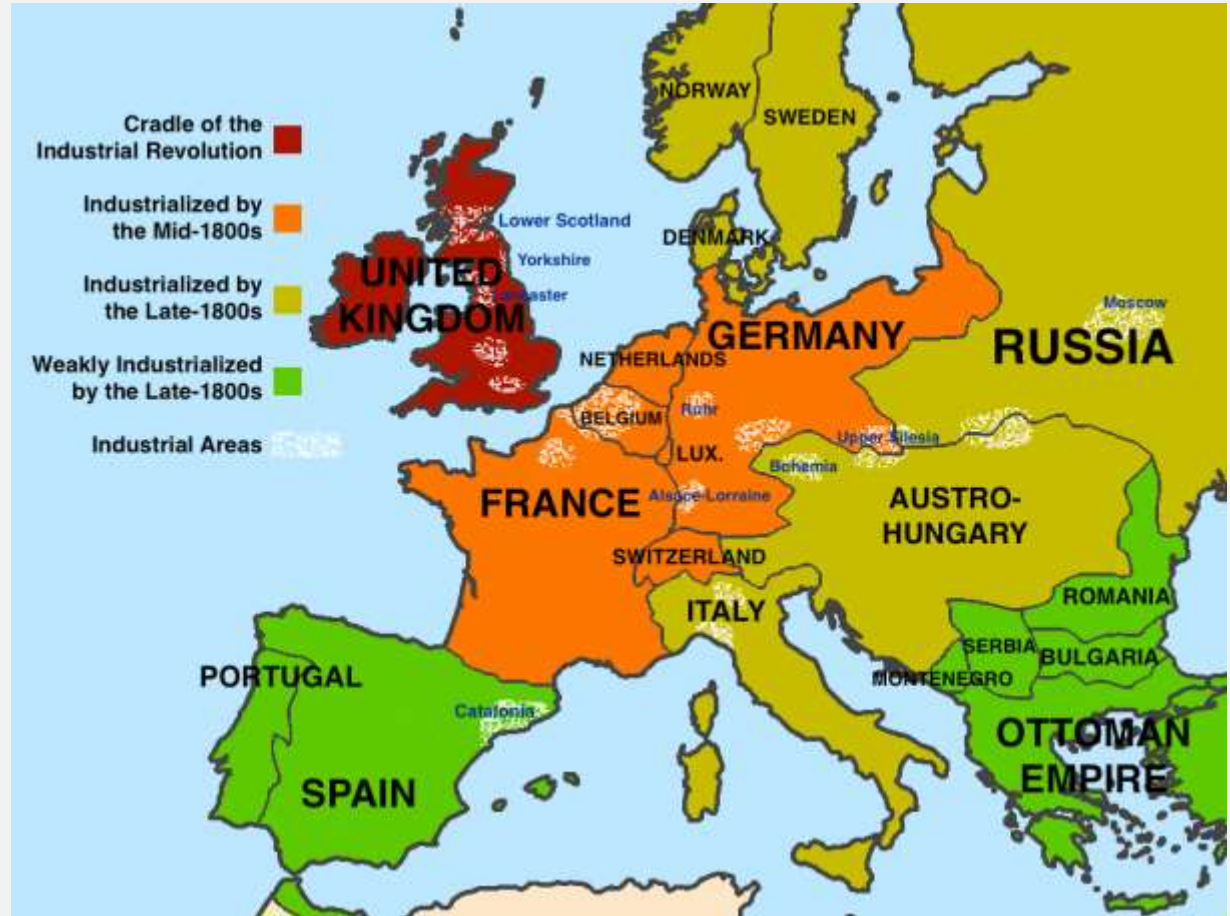


Map 17.1 The Early Phase of Europe's Industrial Revolution
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III. WHY EUROPE?

A. COMPETITION

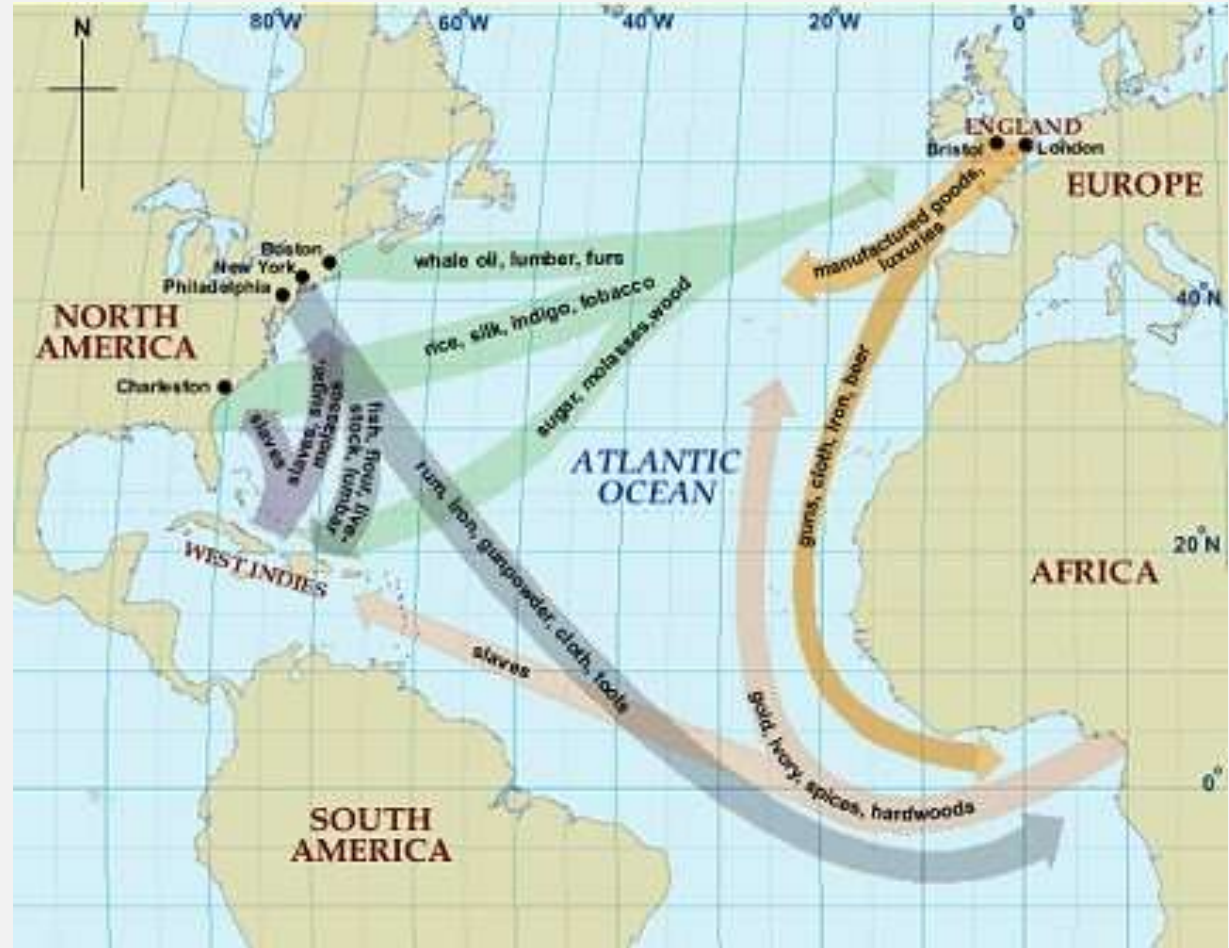
- GUARDED AGAINST COMPLACENCY
- MONARCHS WITH WEALTH FINANCED DEVELOPMENT



III. WHY EUROPE?

B. COMMERICAL AND CULTURAL EXCHANGE

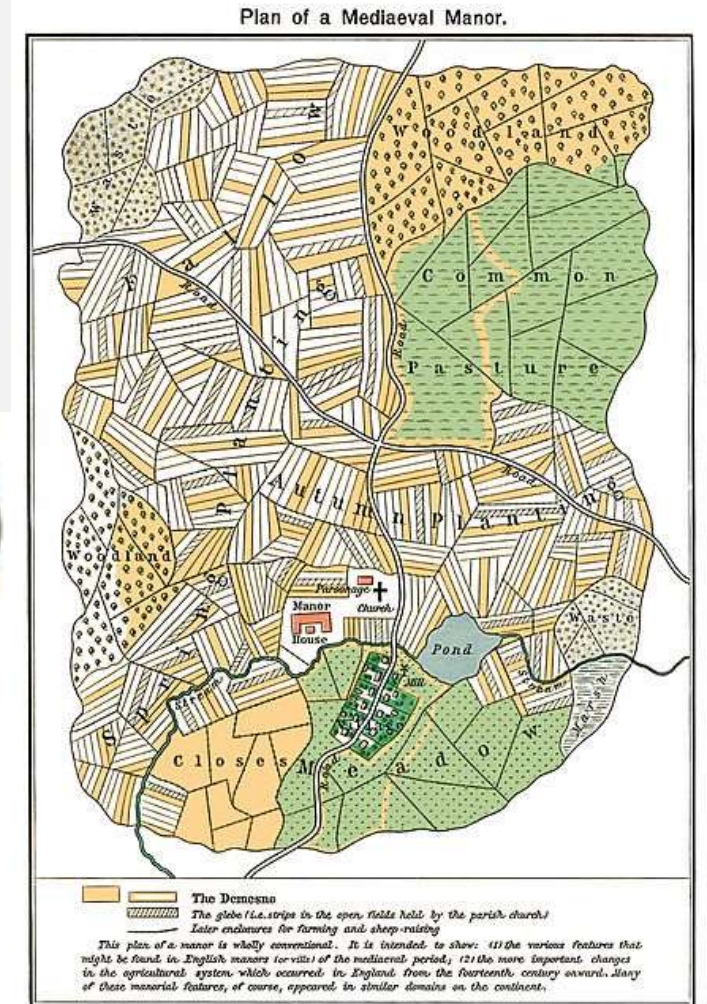
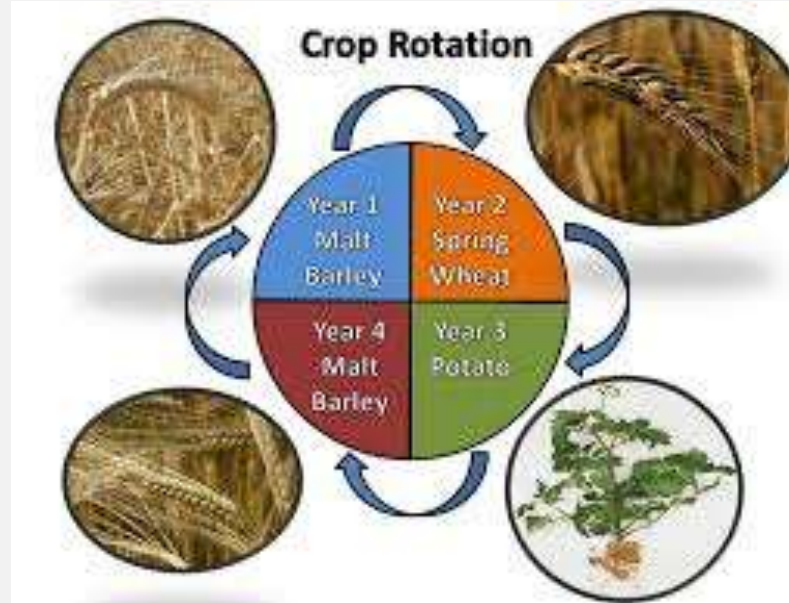
- HUB OF NEW GLOBAL MARKETS
- BROUGHT NEW IDEAS, RESOURCES, AND MARKETS
- LABOR DISRUPTIONS



IV. WHY GREAT BRITAIN?

A. SOCIAL AND ECONOMIC FACTORS

- MOST HIGHLY COMMERCIALIZED NATION WITH GLOBAL COLONIES
- AGRICULTURAL CHANGES
 - ENCLOSURE MOVEMENT, CROP ROTATION



IV. WHY GREAT BRITAIN?

A. SOCIAL AND ECONOMIC FACTORS

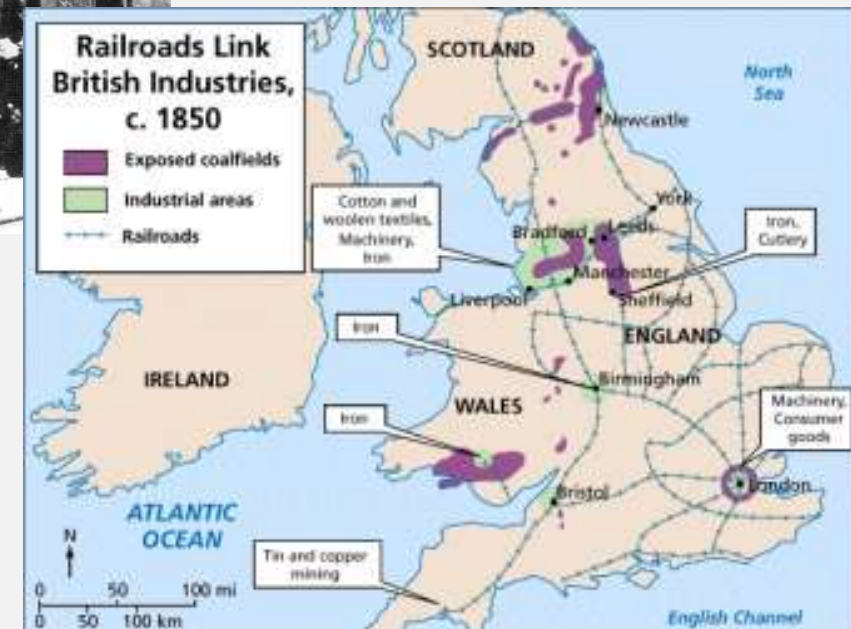
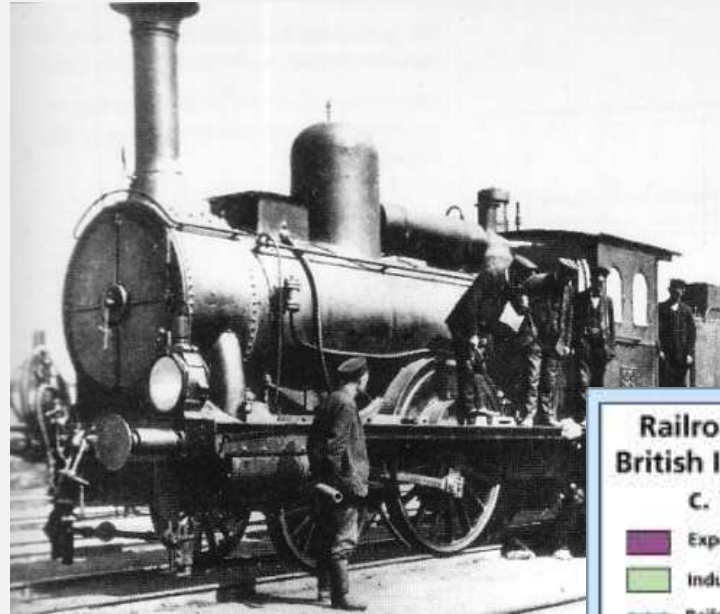
- LABOR MIGRATIONS – RURAL TO URBAN
- ARISTOCRATIC INVESTMENT



IV. WHY GREAT BRITAIN?

B. POLITICAL SUPPORT AND PROTECTION

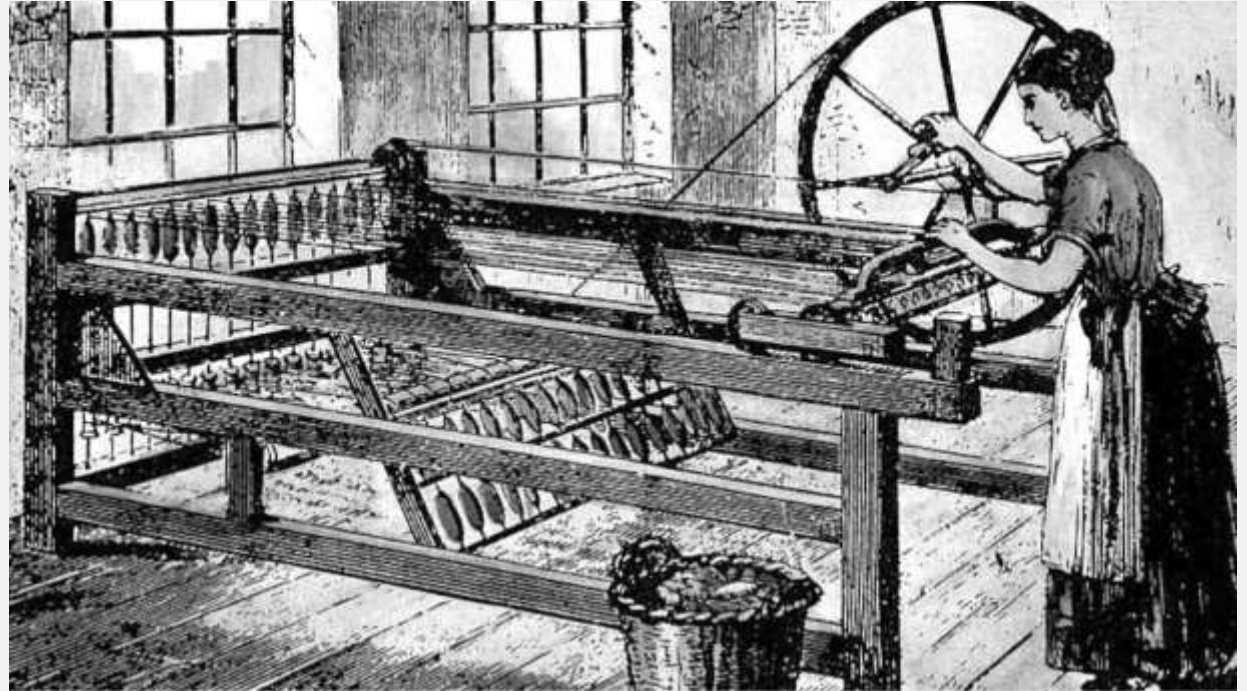
- TOLERANCE FOR SKILLED IMMIGRANTS
- PROTECTIVE TARIFFS
- INCORPORATION LAWS
- INFRASTRUCTURE SPENDING
- NAVAL PROTECTION

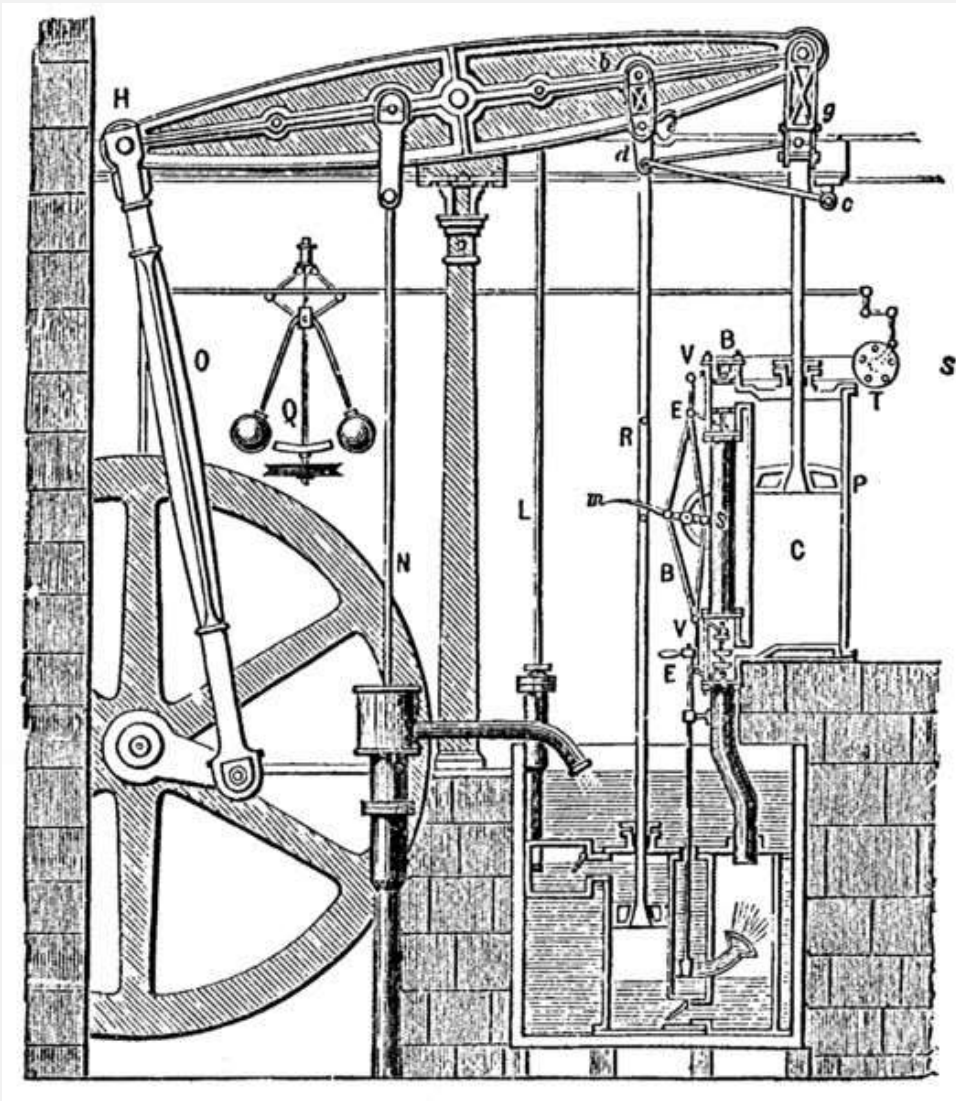


IV. WHY GREAT BRITAIN?

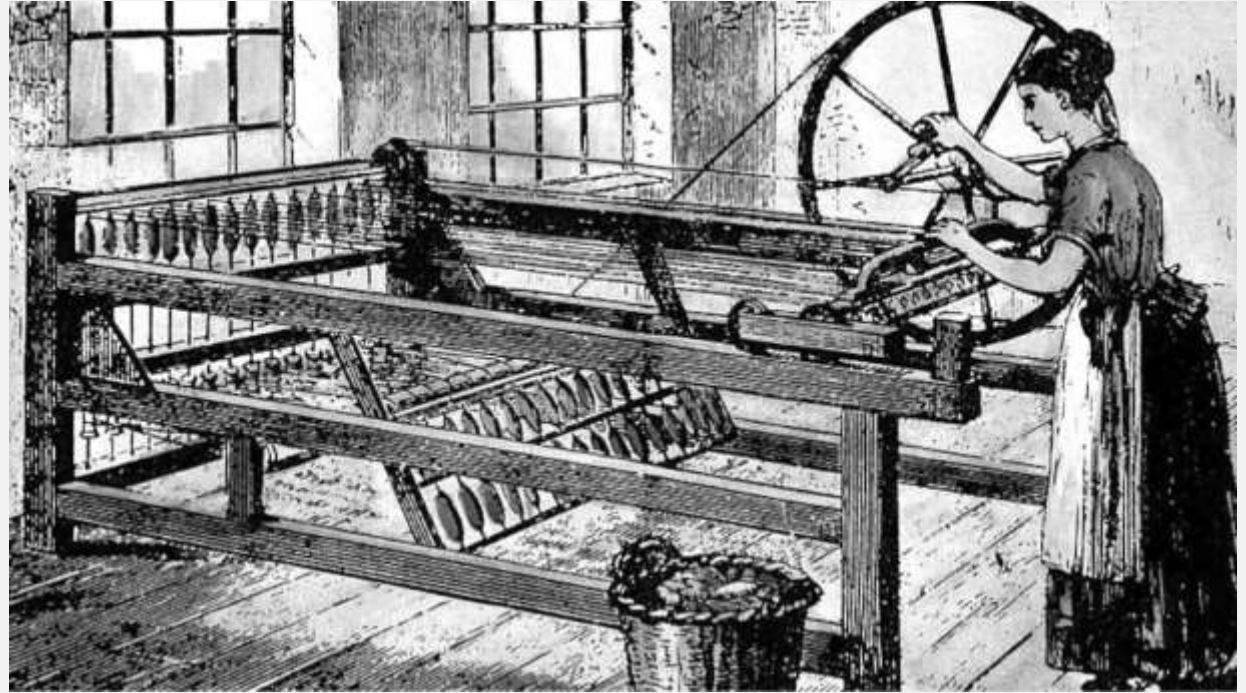
C. TECHNOLOGICAL

- SCIENTIFIC REVOLUTION IN GB FOCUSED ON MECHANIZATION
 - Spinning Jenny
 - Steam Engine
 - Cotton Gin
 - Bessemer Process (Steel)

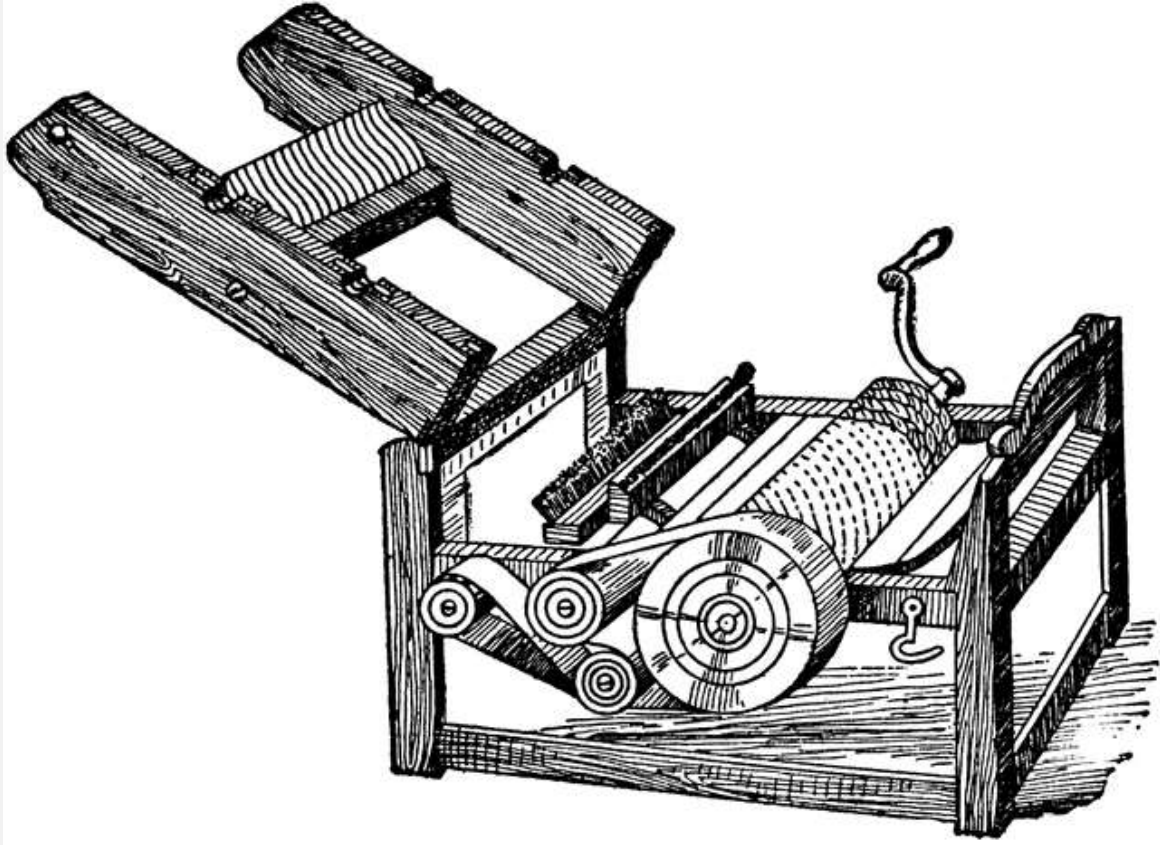




Steam Engine
James Watt 1763-1775



Spinning Jenny
James Hargreaves 1764



Cotton Gin
Eli Whitney 1793

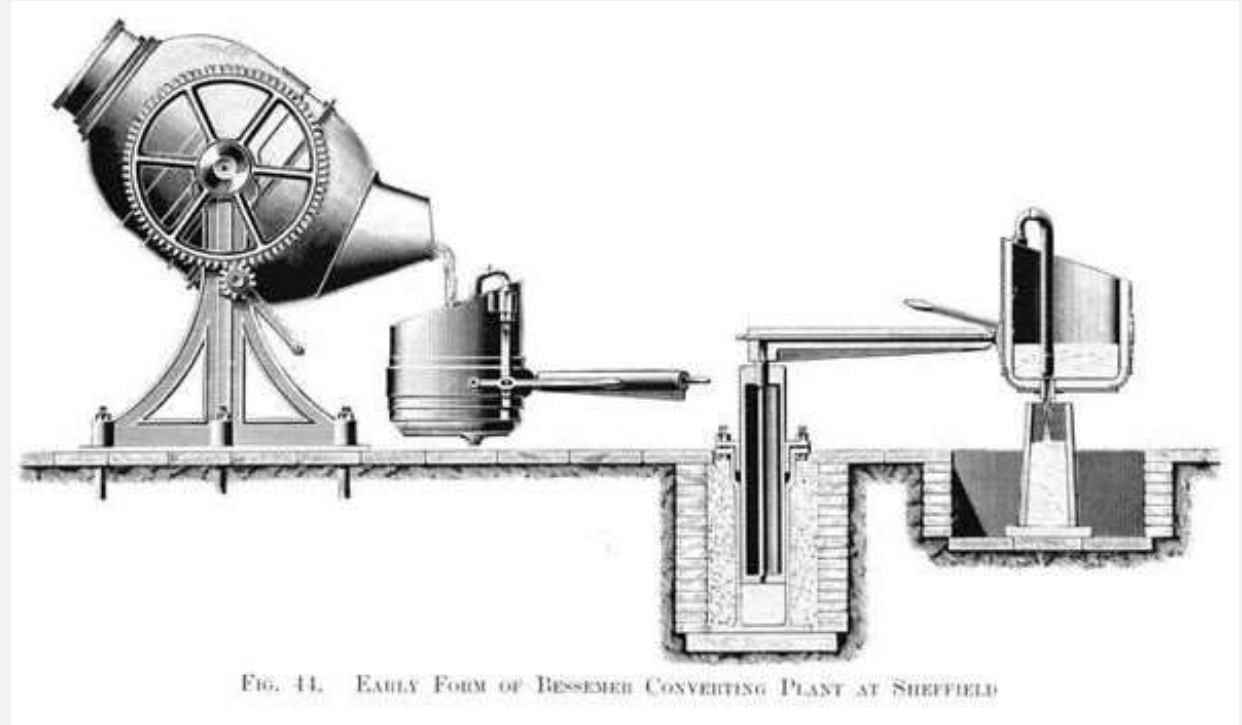


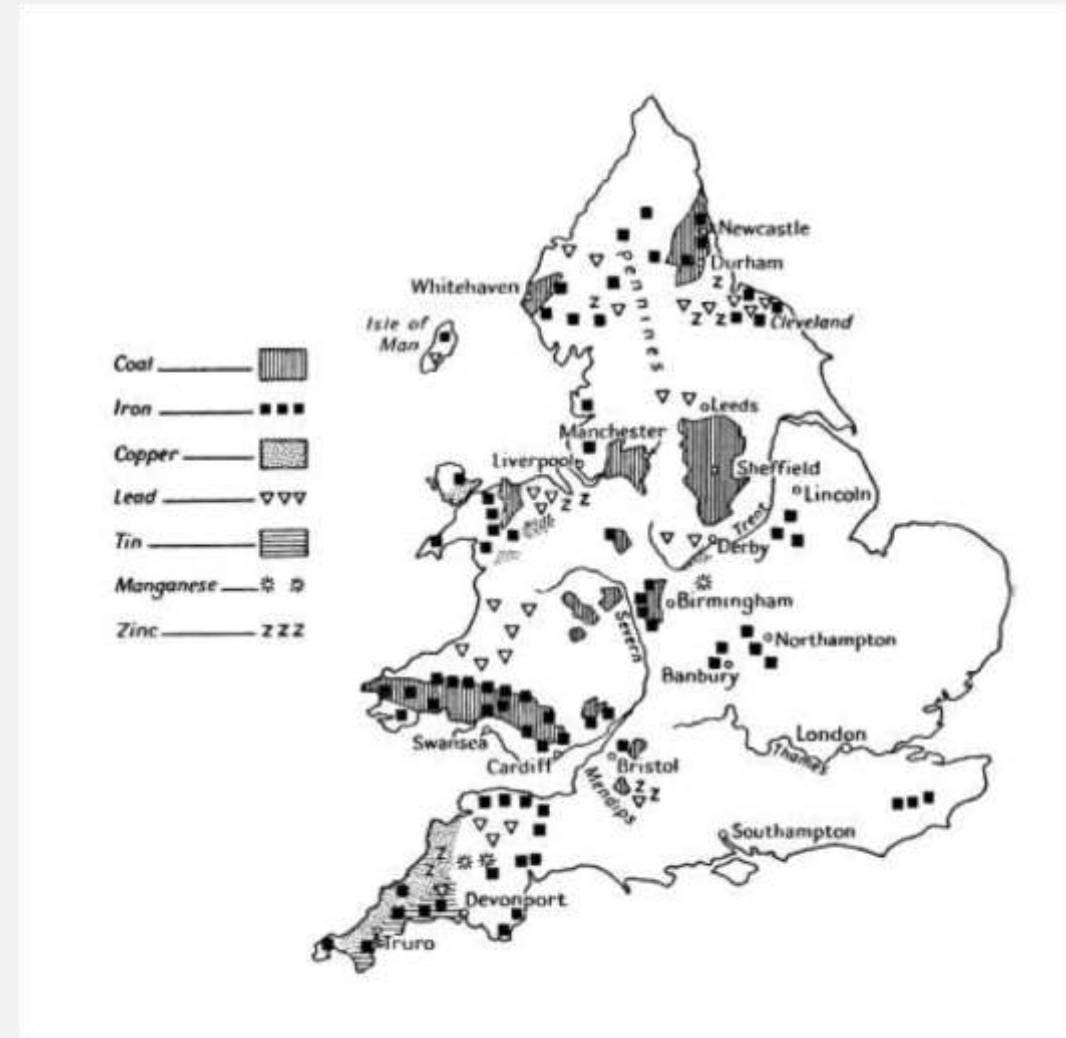
FIG. 44. EARLY FORM OF BESSEMER CONVERTING PLANT AT SHEFFIELD

Bessemer Process
Henry Bessemer 1856

IV. WHY GREAT BRITAIN?

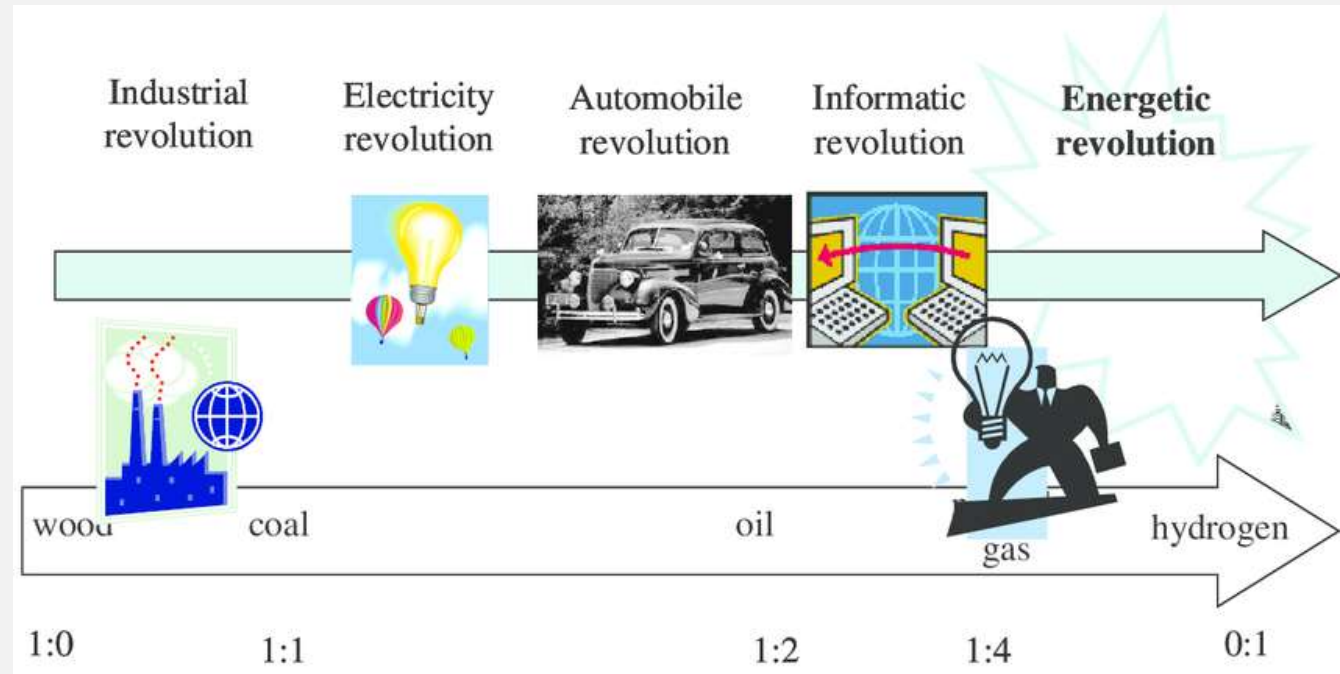
D. GEOGRAPHIC

- COAL, IRON ORE, WATER
- PROTECTED FROM INVASION



V. BIG PICTURE CONNECTIONS ~ UNFINISHED LEGACY

- A. ARE WE STILL IN THE MIDST OF THE INDUSTRIAL OR TECHNOLOGICAL REVOLUTION?
- B. HAVE WE SETTLED INTO PERMANENT CLASS WARFARE?
- C. IS THIS THE END OF AN ENVIRONMENTALLY UNSTABLE ERA?

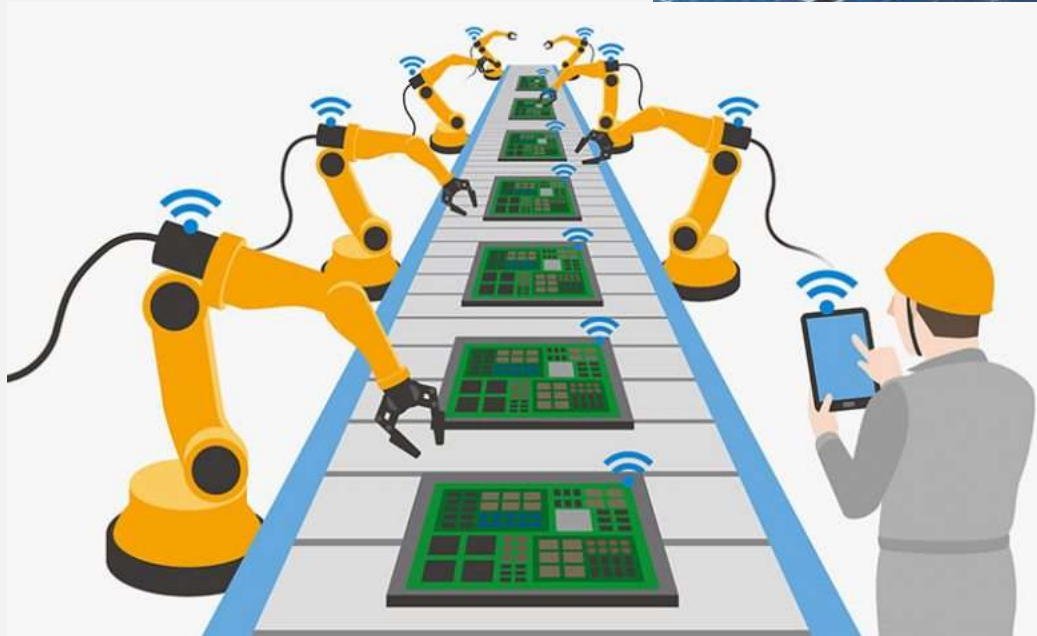


V. BIG PICTURE CONNECTIONS ~ UNFINISHED LEGACY

D. ENERGY CRISIS

E. LABOR AND TECHNOLOGY

F. TRADE WARS





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FIRST THEY ASKED
FOR AN END TO SLAVERY...
..THEN A **MINIMUM WAGE**...
NOW THEY WANT A **LIVING!**...
...**WHAT NEXT** 9/9

LIVING WAGE
MOVEMENT

