

INDUSTRIAL REVOLUTION

AGRICULTURAL REVOLUTION

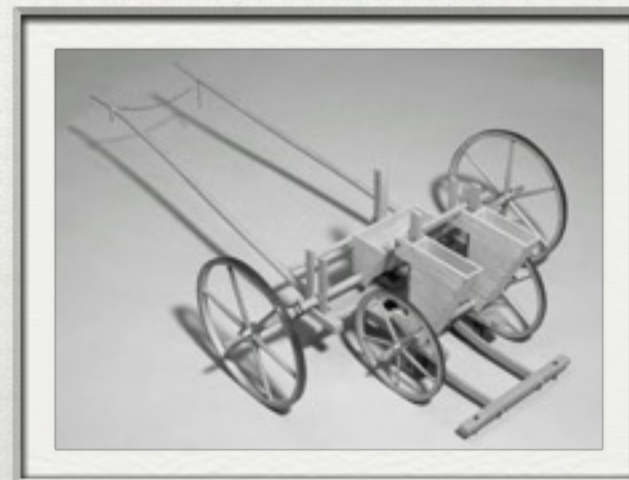
☐ INNOVATIONS IN AGRICULTURE

☐ CROP ROTATION

☐ CHARLES TOWNSEND: DISCOVERED THAT PLANTING TURNIPS AND CLOVER RESTORED NUTRIENTS TO THE SOIL

☐ JETHRO TULL: INVENTED THE SEED DRILL

☐ FARM



AGRICULTURAL REVOLUTION

- ☐ SELECTIVE BREEDING

- ☐ AVERAGE WEIGHT OF CATTLE

- ☐ 1710: 169 KG (368 LBS.)

- ☐ 1795: 363 KG (800 LBS.)

- ☐ **MARLING:** ADDING A MIXTURE OF CLAY AND LIME TO THE SOIL; USED AS FERTILIZER IN LIME DEFICIENT SOILS.

- ☐ BONE MEAL AS FERTILIZER. (PHOSPHOROUS)

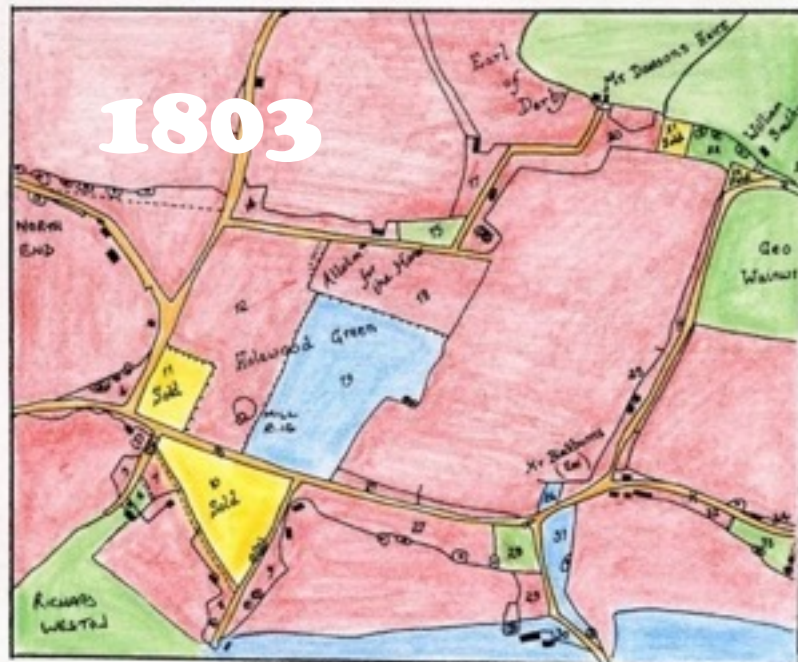
ENCLOSURE MOVEMENT

1783



(a) 1783 DEED ESTATE MAP

1803

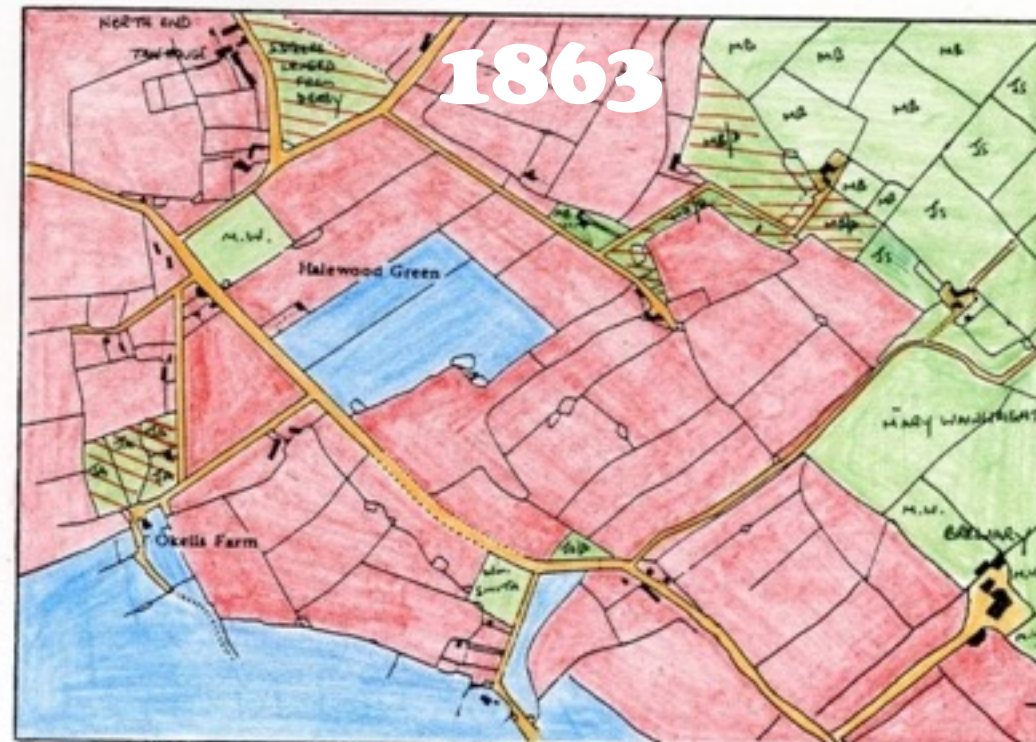


(b) 1803 ENCLOSURE ALMARD

THE ENCLOSURE OF HALEWOOD GREEN
1783-1848

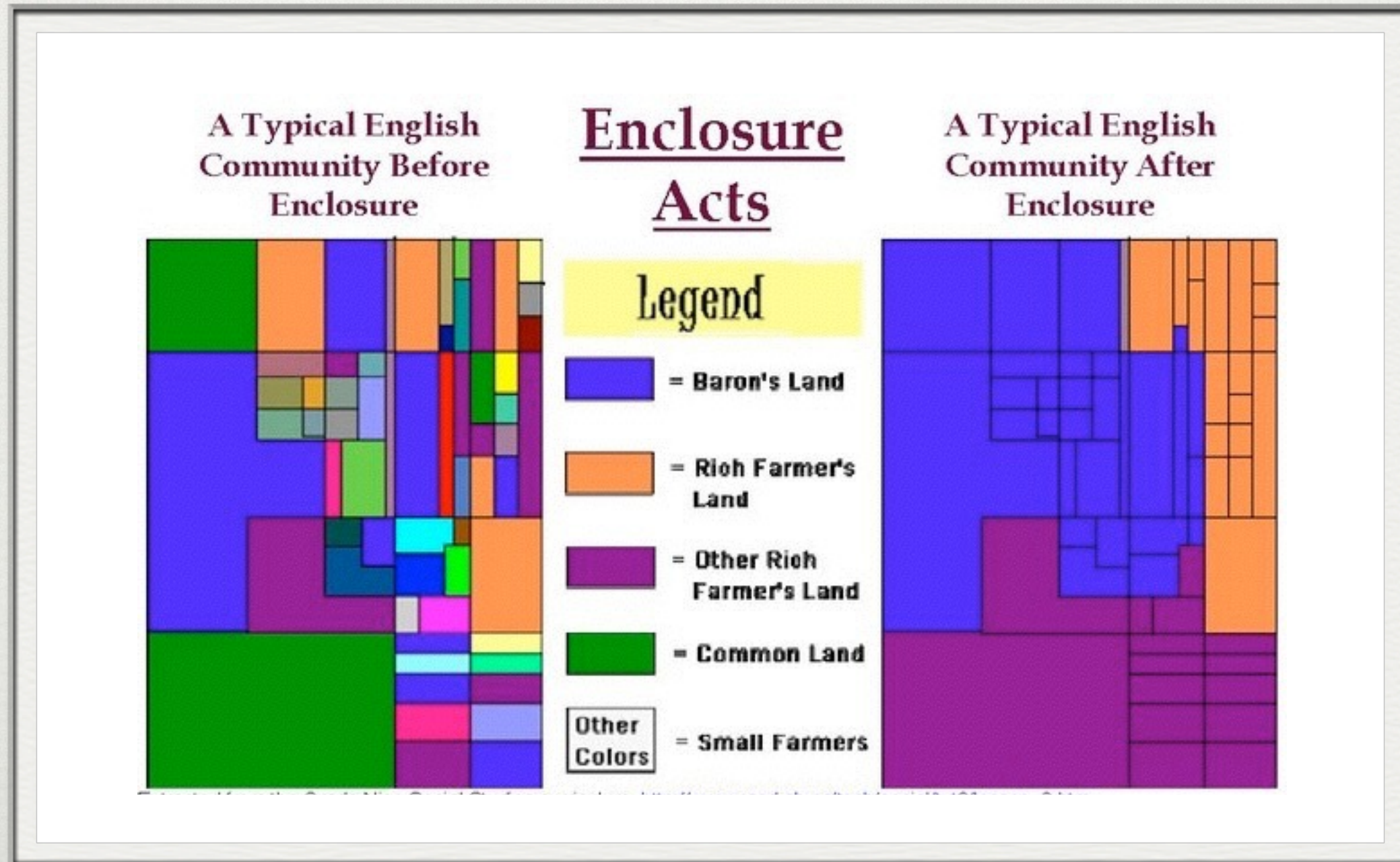
- EARL OF GRAY
- JOHN BLACKBURNE ESQ
- COMMON, WASTE, & ROADS
- LAND SOLD TO COVER ENCLOSURE EXPENSES
- OTHER SMALL LANDOWNERS

1863



(c) 1943 T-THE MAP

ENCLOSURE MOVEMENT



ENCLOSURE MOVEMENT

☐ FENCING OFF OF LAND FORMERLY USED BY PEASANTS

☐ RESULTS:

☐ WOOL PRODUCTION INCREASED

☐ PEASANTS WERE FORCED TO MOVE TO CITIES IN SEARCH OF WORK



ENCLOSURE MOVEMENT

Disadvantages of the old system

People have to walk
over your strips to
reach theirs

Field left fallow

No hedges
or fences

No proper
drainage



Difficult
to take
advantage
of new
farming
techniques

Because land in different
fields takes time to get to
each field

Animals can
trample crops
and spread
disease

WHY THE INDUSTRIAL REVOLUTION BEGAN IN ENGLAND?

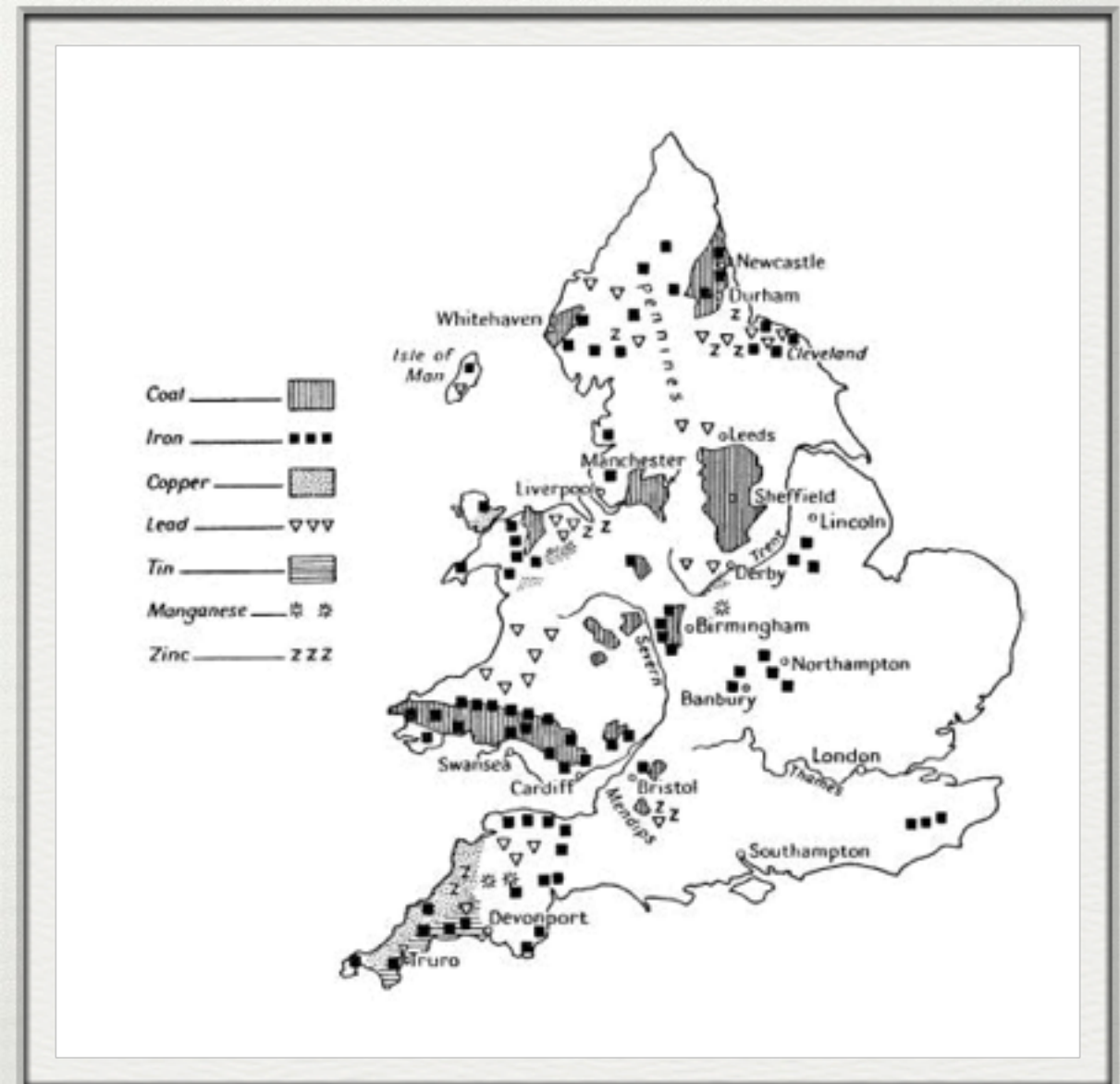
1. RESOURCES

☐ IRON

IN CLOSE
PROXIMITY

☐ COAL

☐ LABOR SUPPLY
FROM PEASANTS
WHO MOVED TO
CITIES BECAUSE OF
THE ENCLOSURE
MOVEMENT



WHY THE INDUSTRIAL REVOLUTION BEGAN IN ENGLAND?

2. ECONOMIC CONDITIONS

- ☐ WEALTHY CLASS WITH CAPITAL TO INVEST IN RAILROADS, MINES, SHIPPING, AND FACTORIES
- ☐ EFFECTIVE CENTRAL BANK
- ☐ WELL-DEVELOPED CREDIT MARKETS



WHY THE INDUSTRIAL REVOLUTION BEGAN IN ENGLAND?

3. POLITICAL CONDITIONS

- ☐ STABLE GOVERNMENT
- ☐ CONSTITUTIONAL
MONARCHY
- ☐ STRONGEST NAVY IN
THE WORLD

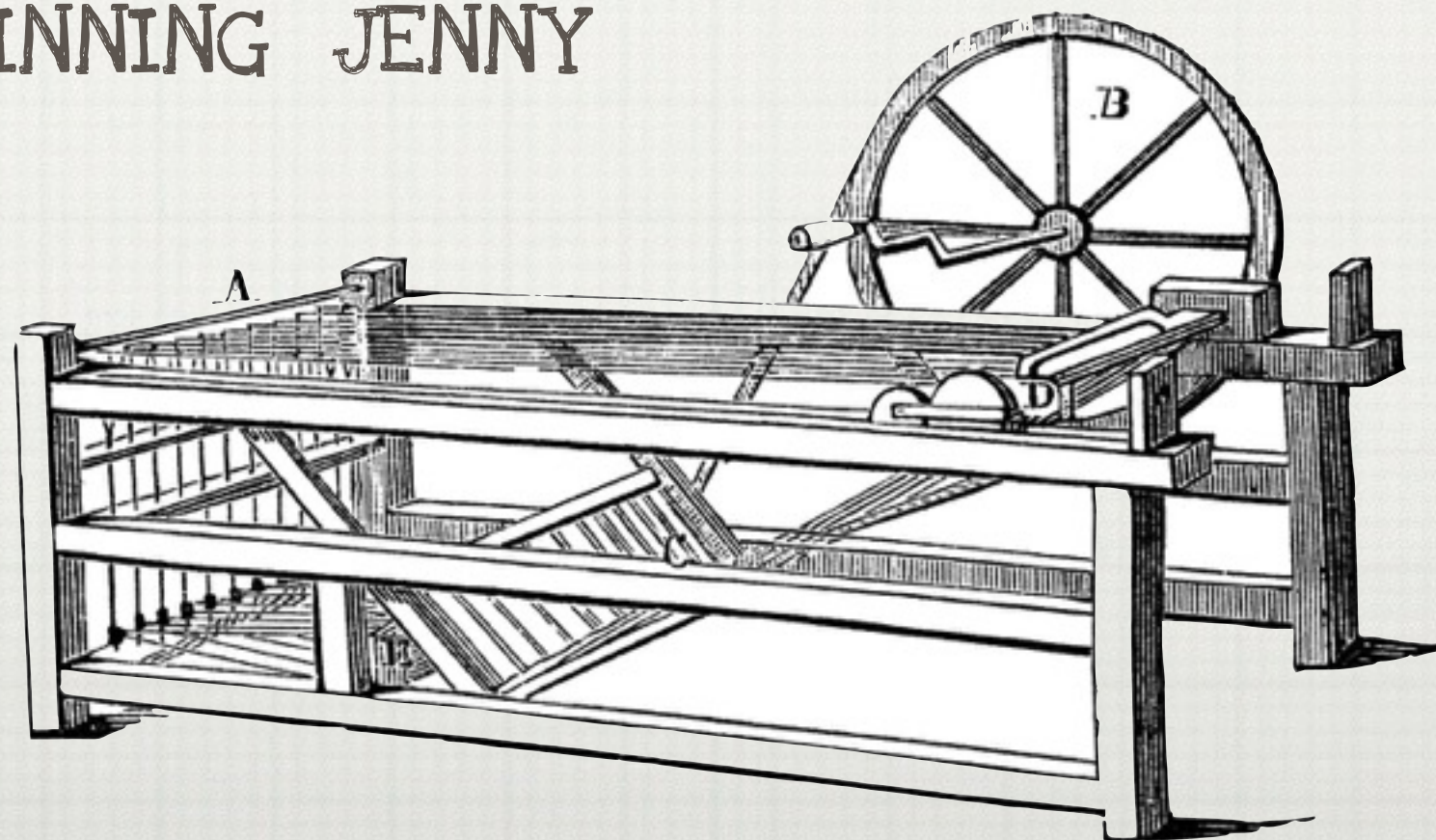


WHY THE INDUSTRIAL REVOLUTION BEGAN IN ENGLAND?

4. TECHNOLOGICAL INNOVATIONS

a. MECHANIZATION OF TEXTILE INDUSTRY

☐ SPINNING JENNY

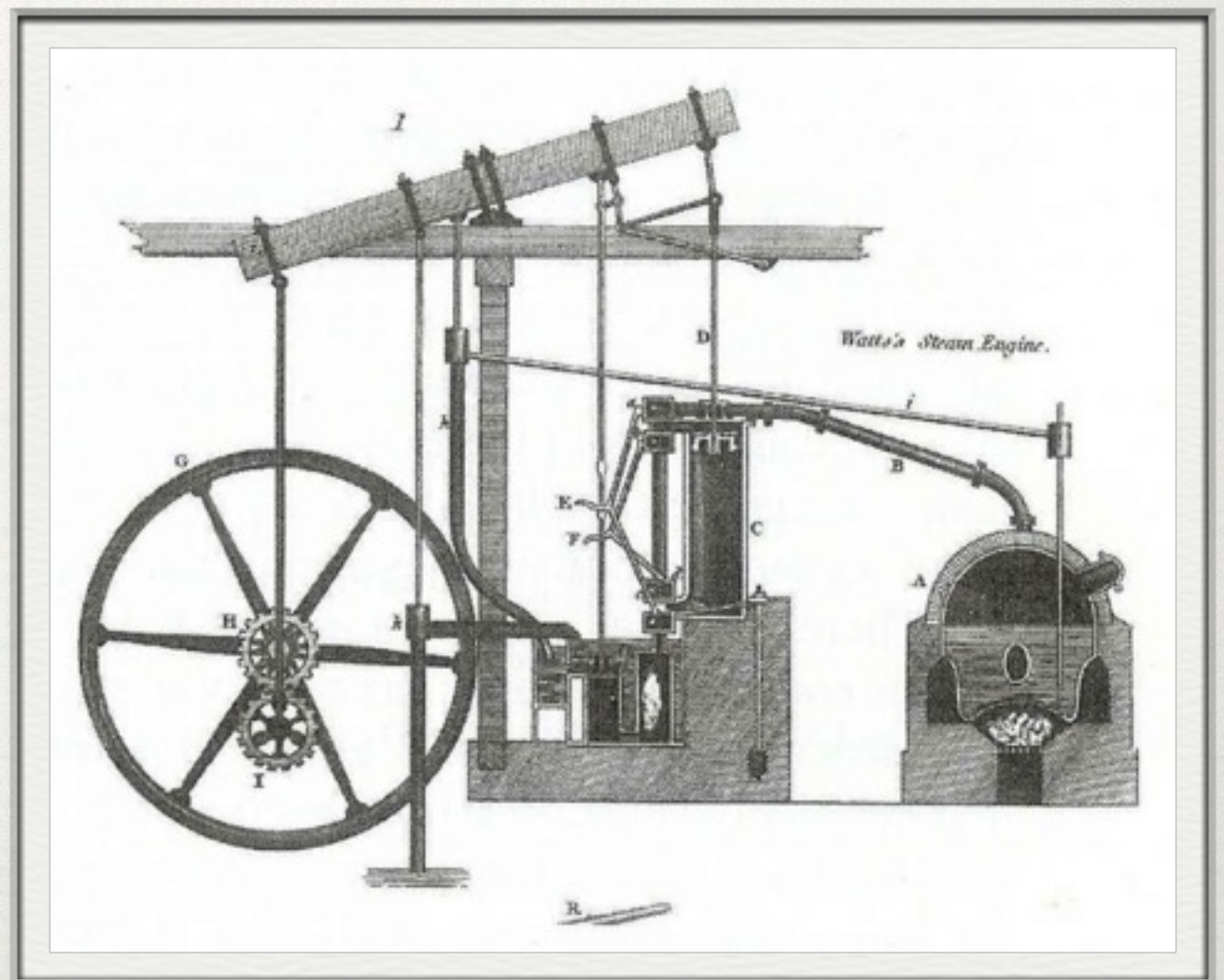


WHY THE INDUSTRIAL REVOLUTION BEGAN IN ENGLAND?

b. 1765: **JAMES WATT**
INVENTED THE
FIRST "TRUE"
STEAM ENGINE

☐ USED IN THE
TEXTILE
INDUSTRY

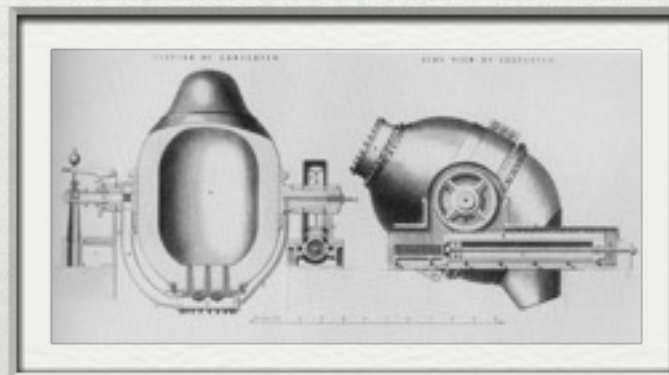
HORSEPOWER



WHY THE INDUSTRIAL REVOLUTION BEGAN IN ENGLAND?

C. IRON AND STEEL PRODUCTION

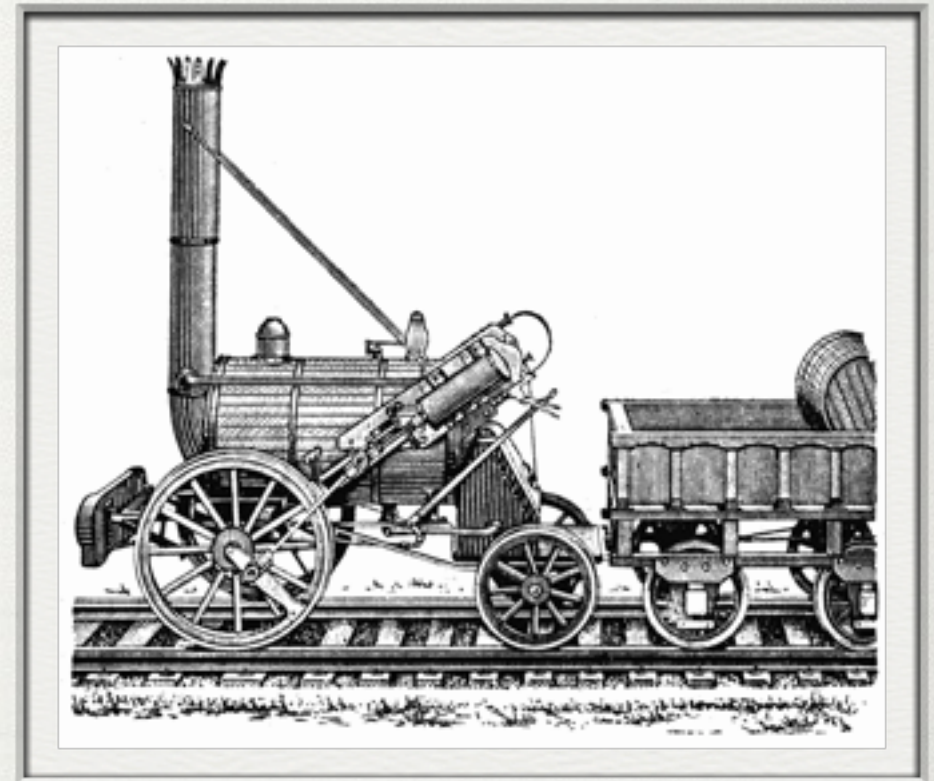
- ☐ USE OF COKE MADE PRODUCTION CHEAPER
- ☐ 1800S: USE OF STEEL PASSED IRON
 - ☐ STRONGER BUT MORE EXPENSIVE
- ☐ **BESSEMER CONVERTER:** INVENTED BY HARRY BESSEMER
AND MADE STEEL LESS EXPENSIVE



WHY THE INDUSTRIAL REVOLUTION BEGAN IN ENGLAND?

d. TRANSPORTATION

- ☐ 1815: **GEORGE STEPHENSON** INVENTED THE FIRST STEAM POWERED LOCOMOTIVE
- ☐ BY MID-1800S STEAM SHIPS SURPASS SAILING SHIPS
- ☐ REQUIRED A NETWORK OF SUPPLY STATIONS AROUND THE WORLD



FACTORIES



GOOD



NOT THAT KIND OF PUTTING OUT !!



PROBLEMS WITH FACTORIES

- ☐ HUGE DANGEROUS MACHINES
- ☐ REQUIRED LARGE AMOUNTS OF CAPITAL (\$)
- ☐ POLLUTION
- ☐ HARSH DISCIPLINE
- ☐ LONG HOURS
- ☐ CHILD LABOR
- ☐ FAST-PACED WORK
- ☐ REPETITIVE TASKS
- ☐ CHANGED SOCIAL/FAMILY LIVES OF PEOPLE
- ☐ CREATED 2 CLASSES OF PEOPLE
 - ☐ OWNERS
 - ☐ WAGE EARNERS

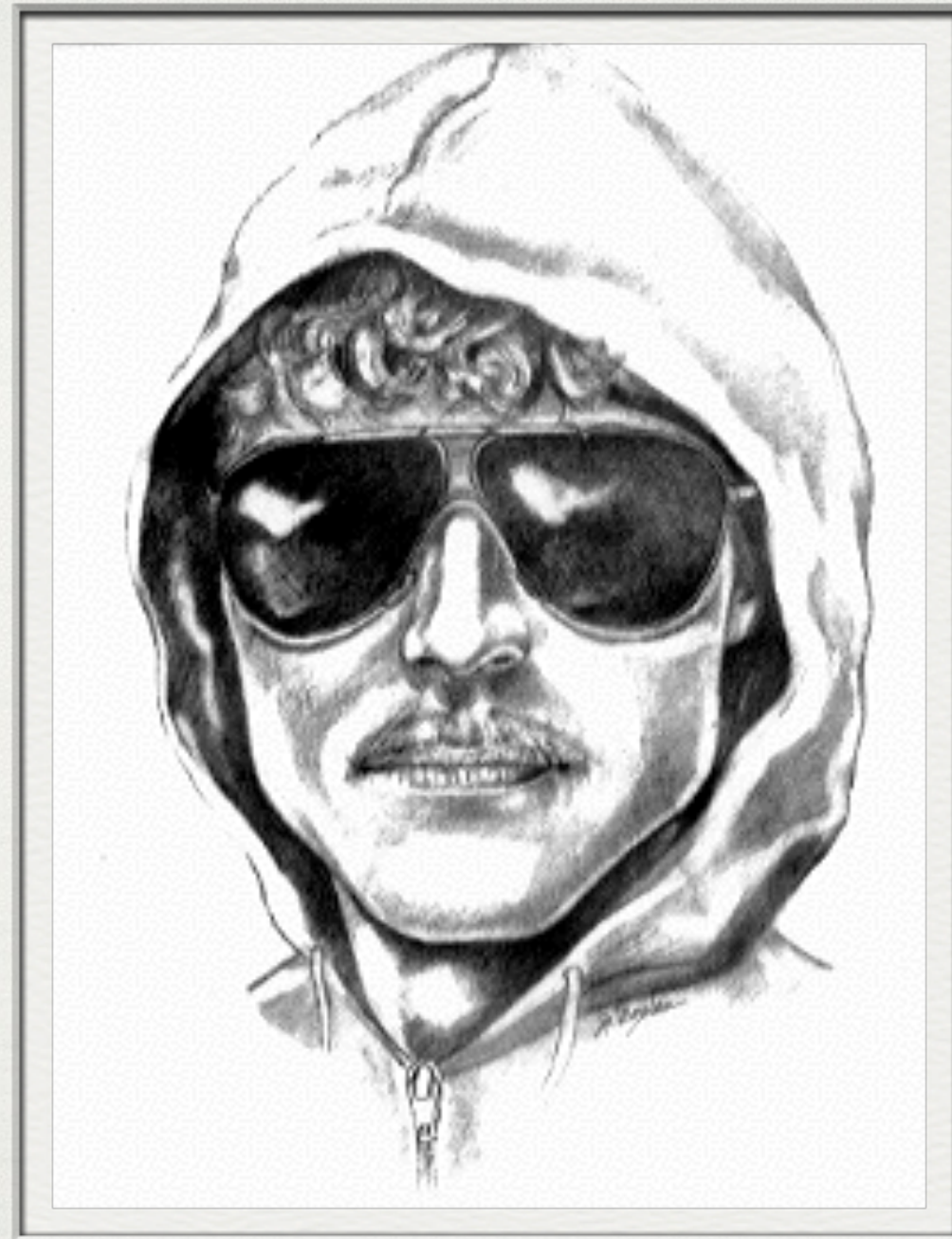


MANCHESTER ENGLAND, 1840

LUDDITES

- ☐ ENGLISH CRAFTSMEN WHO BELIEVED THAT MACHINES WERE EVIL BECAUSE THEY PUT PEOPLE OUT OF WORK
- ☐ THEY ATTACKED AND DESTROYED FACTORIES AND THE MACHINES IN THEM
- ☐ NAMED FOR GENERAL NED LUDD WHO FOUNDED THE MOVEMENT
- ☐ ARMY OF REDRESSERS



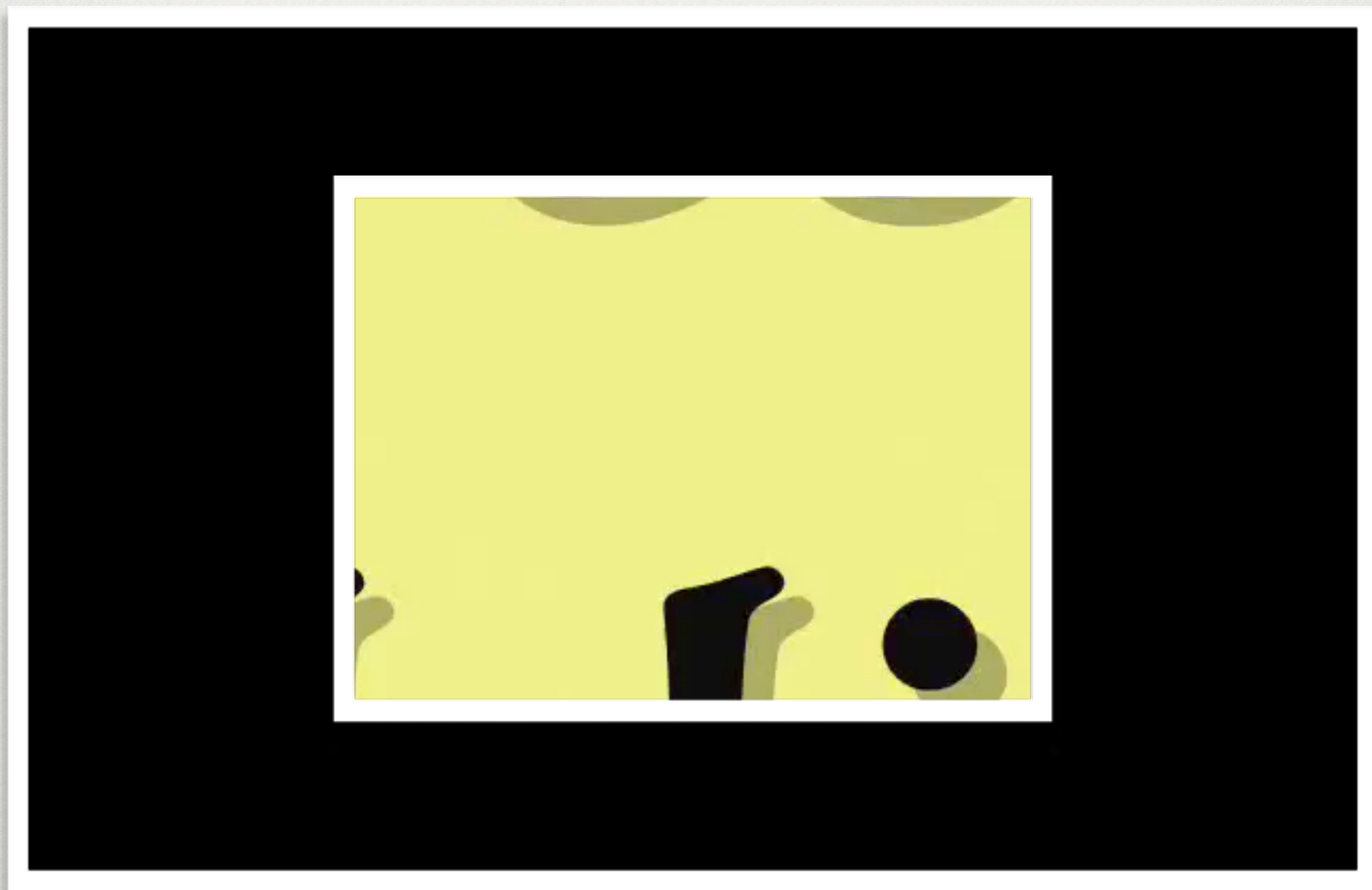


MODERN LUDDITE: TED KACZYNSKI, THE UNABOMBER

LUDDITES

- ☐ 1812: FRAME BREAKING ACT MADE IT A CAPITAL OFFENSE TO DESTROY A MACHINE
- ☐ GOVT. SENT IN 12,000 TROOPS TO DESTROY THE LUDDITE MOVEMENT
- ☐ 17 MEN WERE HANGED
- ☐ THE MOVEMENT FIZZLED OUT



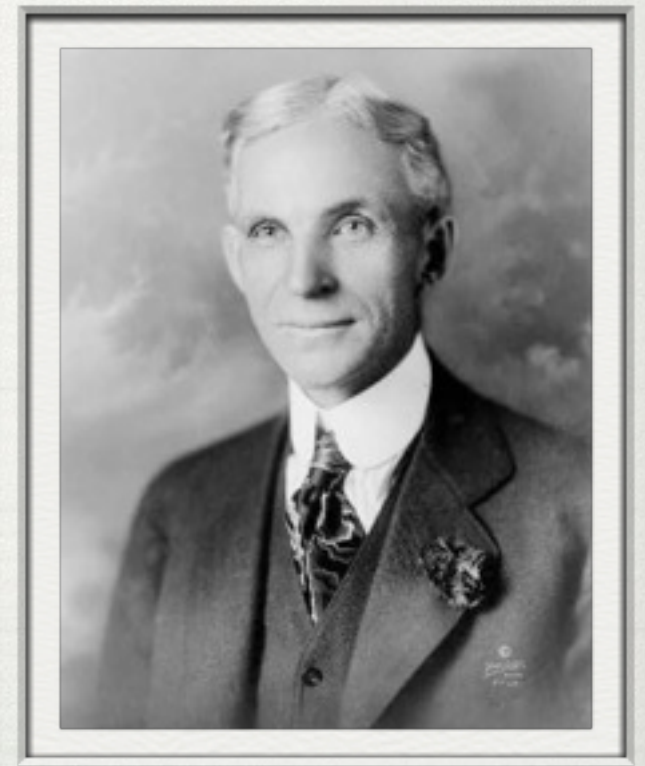


HOW HAVE
MACHINES
IMPROVED OUR
LIVES?

HOW HAVE
MACHINES
MADE OUR
LIVES WORSE?

INNOVATIONS IN THE MASS PRODUCTION OF GOODS

- **ELI WHITNEY:**
PROMOTED THE
IDEA OF
INTERCHANGEABLE
PARTS FOR GUNS
- **HENRY FORD:**
INVENTED THE
ASSEMBLY LINE



☐ JOINT-STOCK COMPANY:

☐ MONOPOLY: WHEN ONE COMPANY CONTROLS AN ENTIRE INDUSTRY

☐ STANDARD OIL

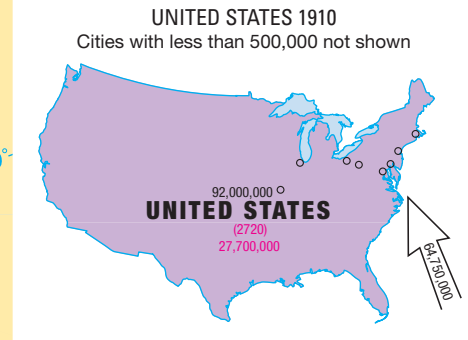
☐ AT&T

☐ MICROSOFT ?

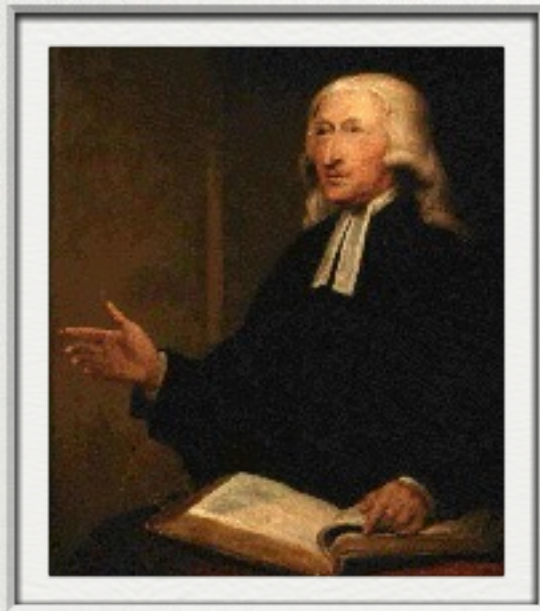
☐ CARTEL: WHEN A GROUP OF COMPANIES WORK TOGETHER TO CONTROL AN INDUSTRY

☐ USUALLY TO SET PRICES





SOCIAL ACTIVISTS OF 1800S



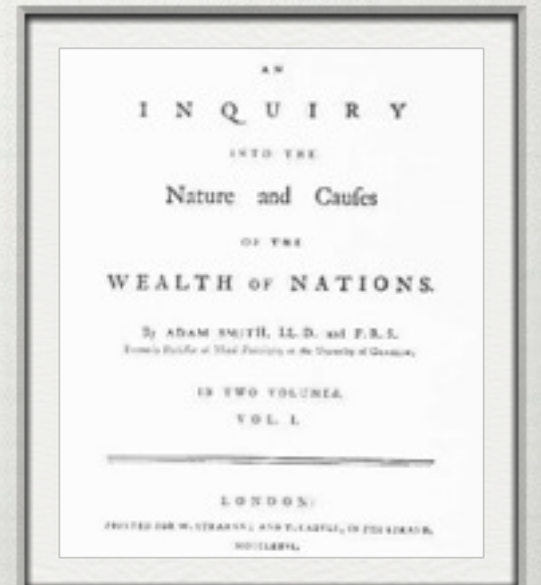
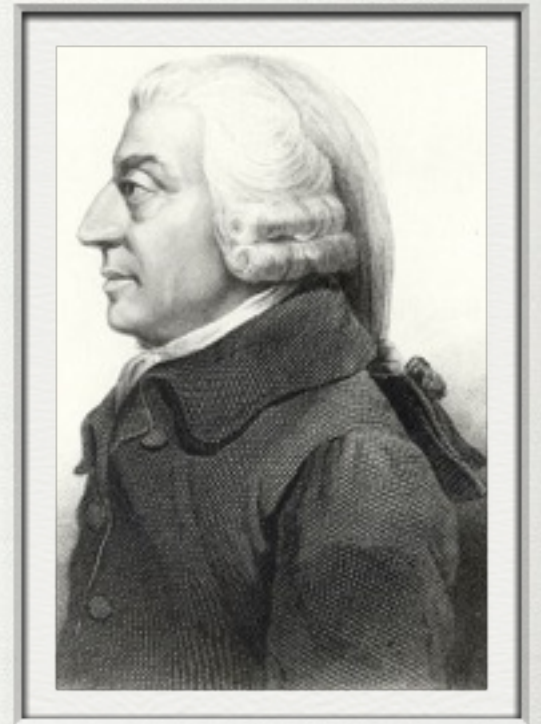
- ☐ JOHN WESLEY: FOUNDER OF METHODIST CHURCH
- ☐ WILLIAM BOOTH: FOUNDER OF THE SALVATION ARMY
- ☐ FLORENCE NIGHTINGALE: PIONEER IN THE FIELD OF NURSING

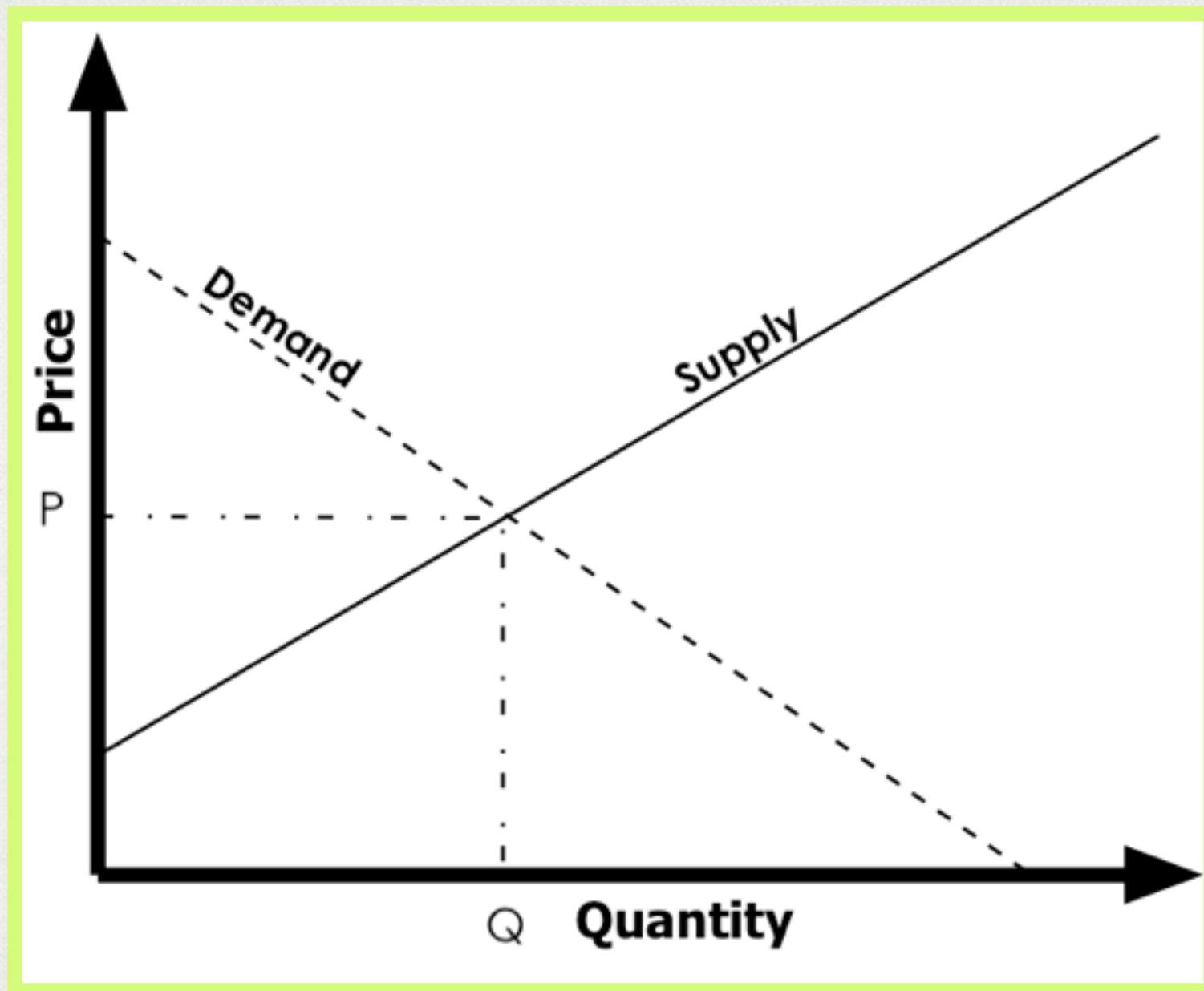
ECONOMIC & SOCIAL THINKERS

ADAM SMITH

1723 - 1790

- ☐ FATHER OF CAPITALISM
- ☐ WROTE WEALTH OF NATIONS
- ☐ ARGUED FOR LAISSEZ-FAIRE ECONOMICS
 - ☐ LAISSEZ-FAIRE = LEAVE IT ALONE OR LET IT BE
 - ☐ BELIEVED THE GOVERNMENT SHOULD NOT INTERFERE IN THE ECONOMY
- ☐ ARGUED FOR RELIANCE ON THE "INVISIBLE HAND" OF THE MARKET



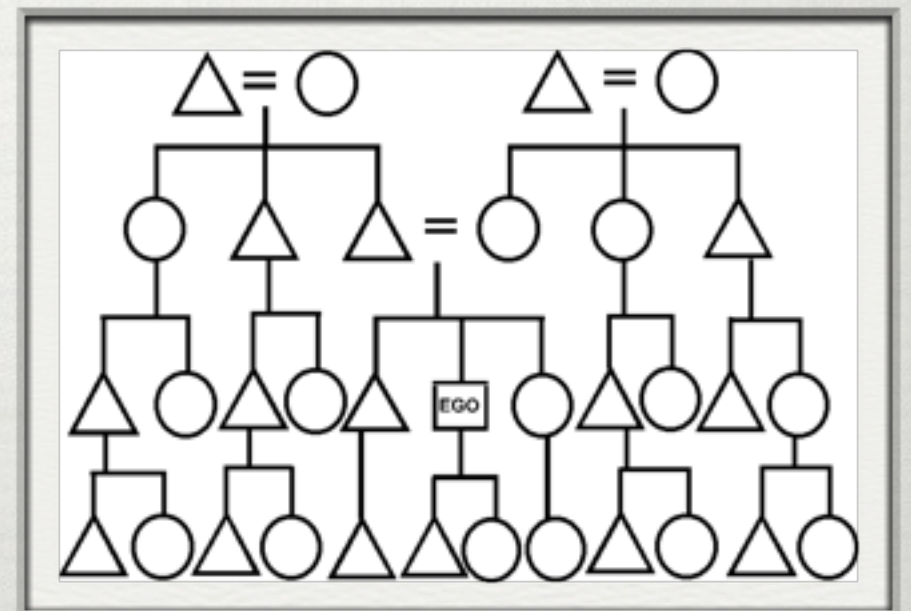


EQUILIBRIUM PRICE

THOMAS MALTHUS

1766 - 1834

- ☐ WROTE AN ESSAY ON THE PRINCIPLE OF POPULATION
- ☐ FIRST PROFESSIONAL ECONOMIST
- ☐ ARGUED THAT POPULATION GROWS AT A FASTER RATE THAN FOOD PRODUCTION
- ☐ POPULATION GROWS EXPONENTIALLY
- ☐ THUS HE ARGUES THAT THERE WOULD ALWAYS BE POVERTY. IT WAS UNAVOIDABLE.



DAVID RICARDO

1748 - 1834

- ☐ KNOWN FOR HIS "IRON LAW OF WAGES"
- ☐ IF POPULATION INCREASED, WAGES WILL FALL.



- ☐ IF POPULATION DECREASED, WAGES WILL TEMPORARILY RISE BUT THEN PEOPLE WILL HAVE MORE CHILDREN AND POPULATION WILL INCREASE.
- ☐ THUS HE ARGUED THAT WAGES WILL ALWAYS BE LOW.



NOT RICKY RICARDO !

BOTH RICARDO AND MALTHUS OPPOSED
GOVERNMENT HELP FOR THE POOR.

THEY BELIEVED THE POOR SHOULD
IMPROVE THEIR LIVES THROUGH HARD
WORK, SAVING, AND HAVING FEWER
CHILDREN.

JEREMY BENTHAM

1748-1832

☐ UTILITARIANISM

☐ TEST FOR ANY GOVERNMENT ACTION IS DOES IT BENEFIT SOCIETY AS A WHOLE

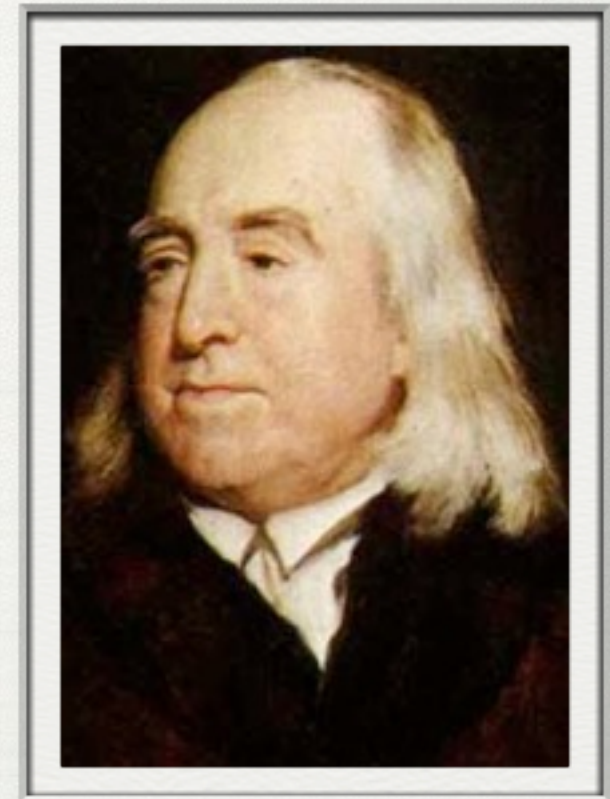
☐ OTHER IDEAS

☐ ANIMAL RIGHTS

☐ DECRIMINALIZATION OF HOMOSEXUALITY

☐ WELFARE

☐ EQUAL RIGHTS FOR WOMEN

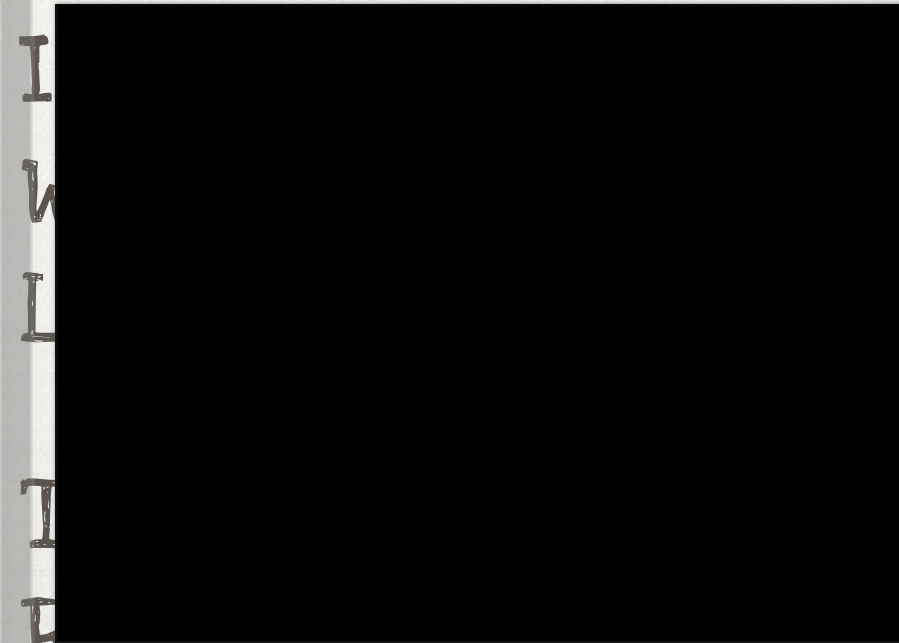


JEREMY BENTHAM

1748-1832



- ☐ BENTHAM'S BODY HAS BEEN PRESERVED AND

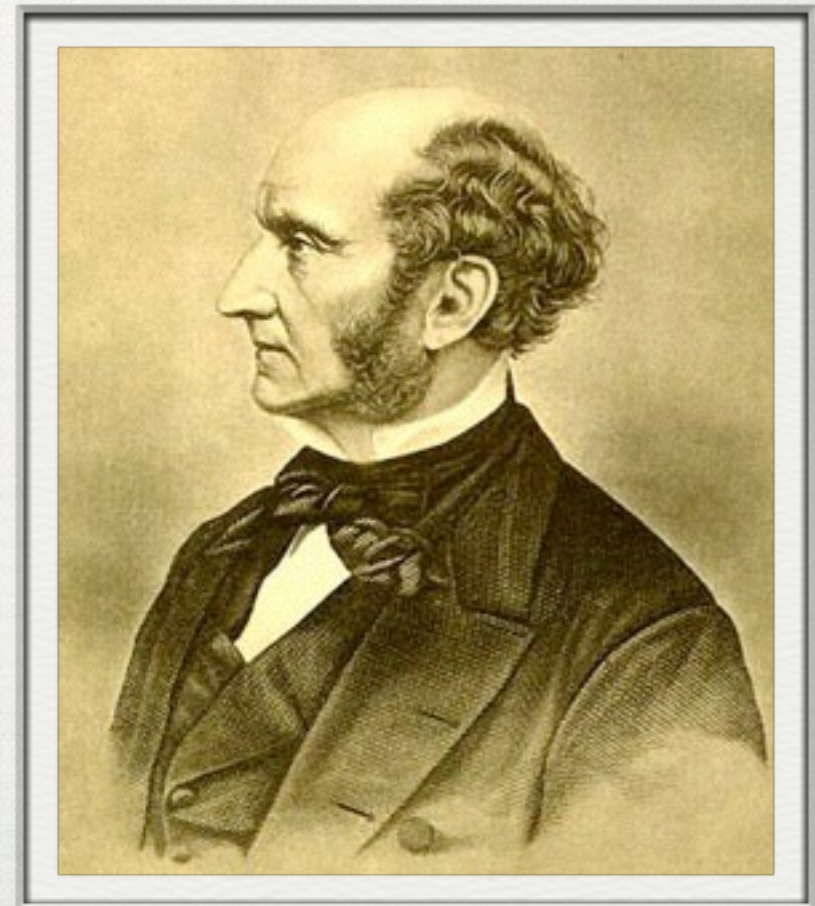


- ☐ THE REAL HEAD IS KEPT IN A SEPARATE BOX.

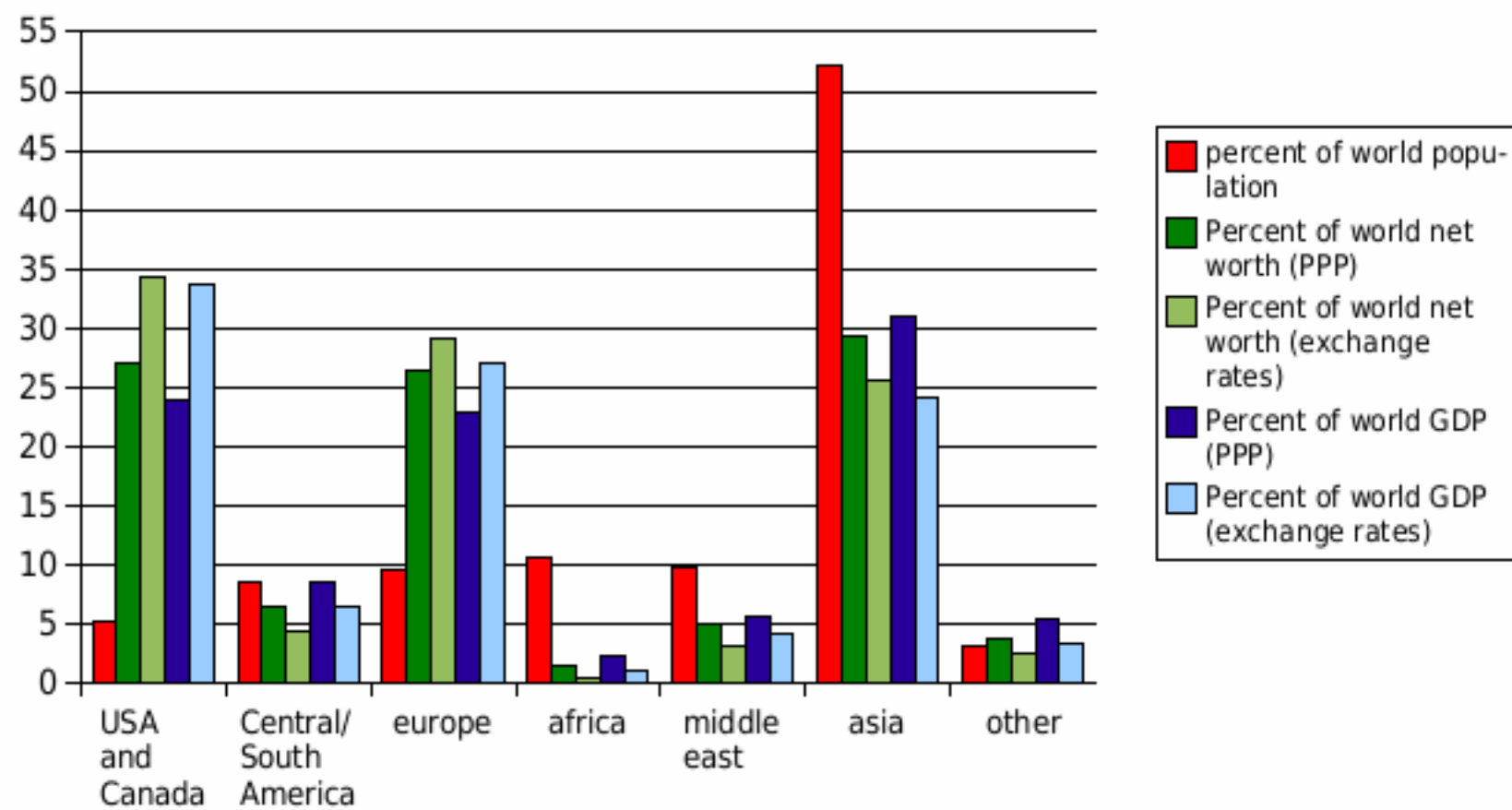
JOHN STUART MILL

1806 - 1873

- ☐ STUDENT OF BENTHAM
- ☐ CONCERNED WITH THE DISTRIBUTION OF WEALTH IN SOCIETY
- ☐ BELIEVED THE GOVERNMENT COULD REDISTRIBUTE WEALTH THROUGH AN INCOME TAX

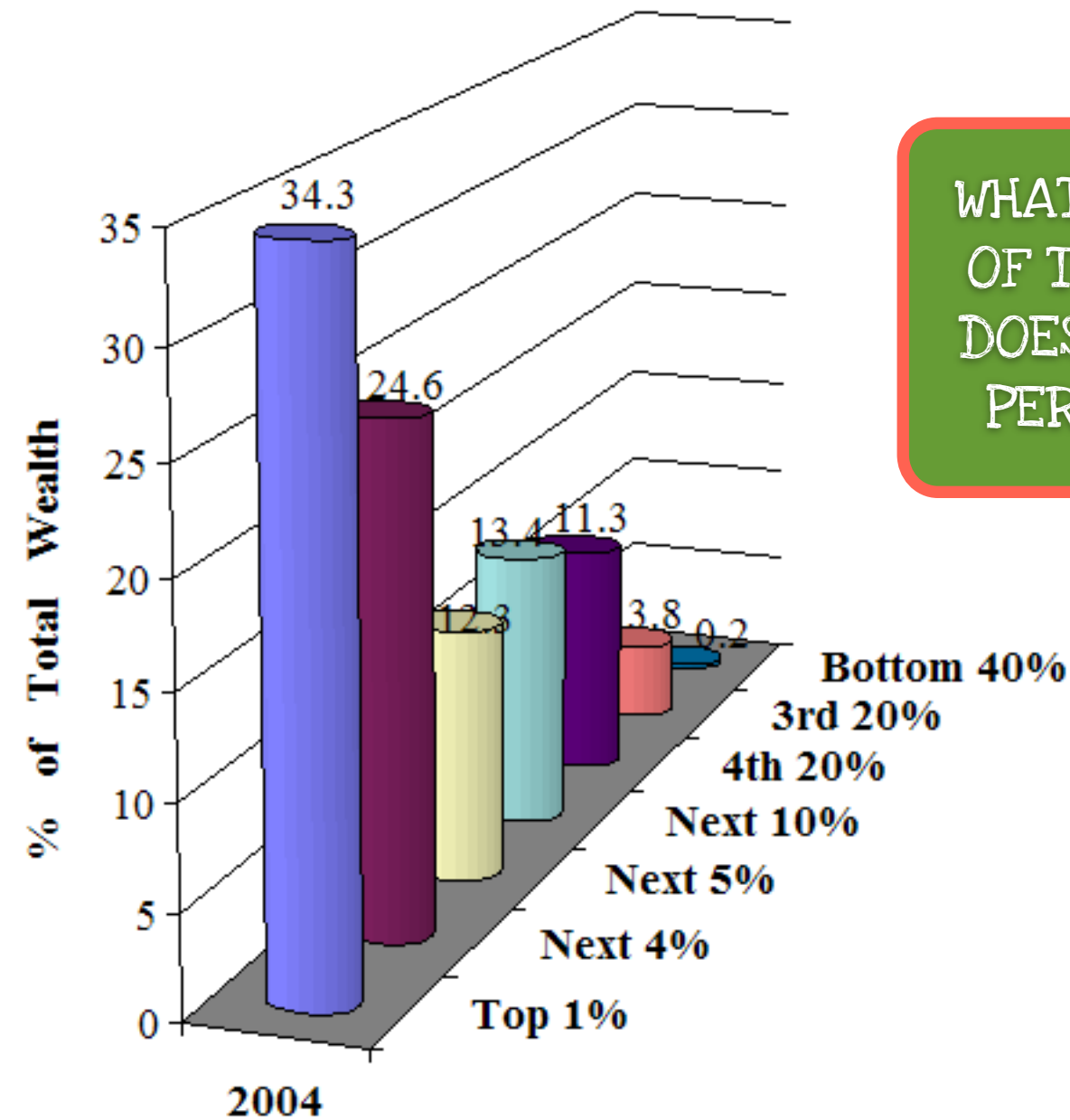


World Distribution of Household Wealth, GDP, and Population in the Year 2000



Distribution of Wealth, U.S. Households, 2004

■ Top 1% ■ Next 4% ■ Next 5% ■ Next 10% ■ 4th 20% ■ 3rd 20% ■ Bottom 40%



DOES IT
MATTER?

WHAT PERCENTAGE
OF TOTAL WEALTH
DOES THE TOP TEN
PERCENT HOLD?

IS THIS A FAIR
DISTRIBUTION
OF WEALTH?

Many people began to
see capitalism as the
source of suffering
and all that was
wrong with society.

Socialism: economic system in which workers control the means of production, distribution, and exchange.

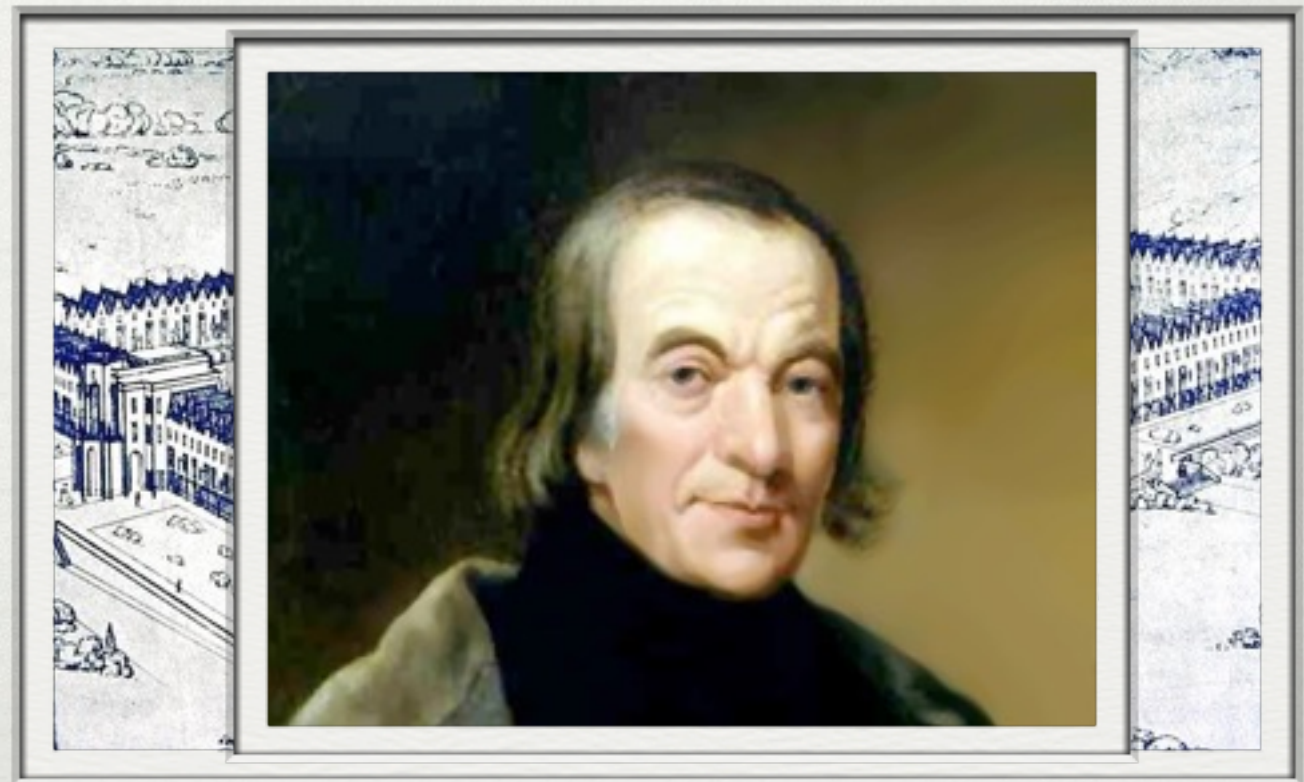
UTOPIAN SOCIALISM

- **UTOPIAN SOCIALISM:** SELF-SUFFICIENT COMMUNITIES IN WHICH ALL WORK AND PROFITS ARE SHARED AND THERE IS NO PRIVATE PROPERTY

- **ROBERT OWEN**

- NEW LANARK, SCOTLAND

- NEW HARMONY, INDIANA



OWEN'S VISION OF NEW HARMONY
(NEVER BUILT)



UTOPIAN SOCIALISM

KIBBUTZ

- FORM OF UTOPIAN SOCIALISM STILL PRACTICED IN ISRAEL

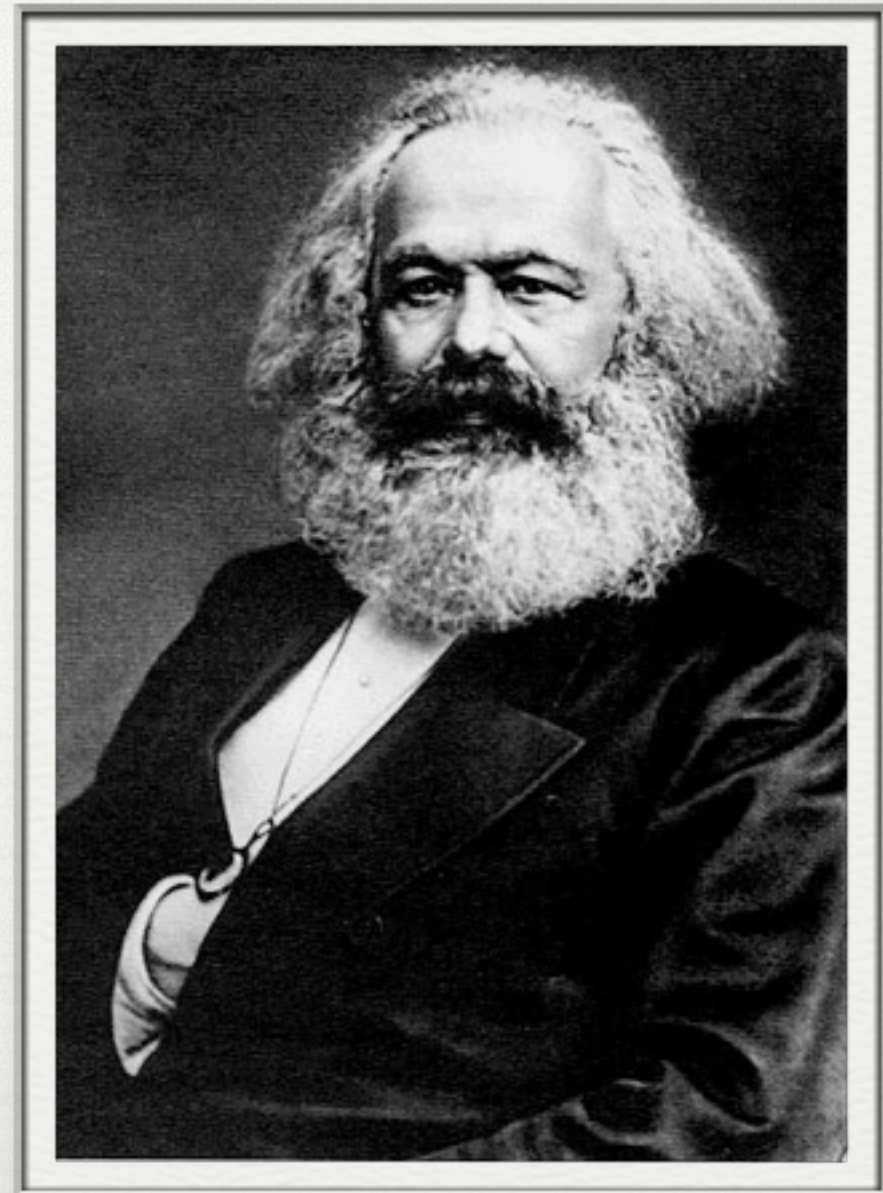


REVOLUTIONARY SOCIALISM

- ☐ BELIEVED THOSE WITH
WILL
N
U
B

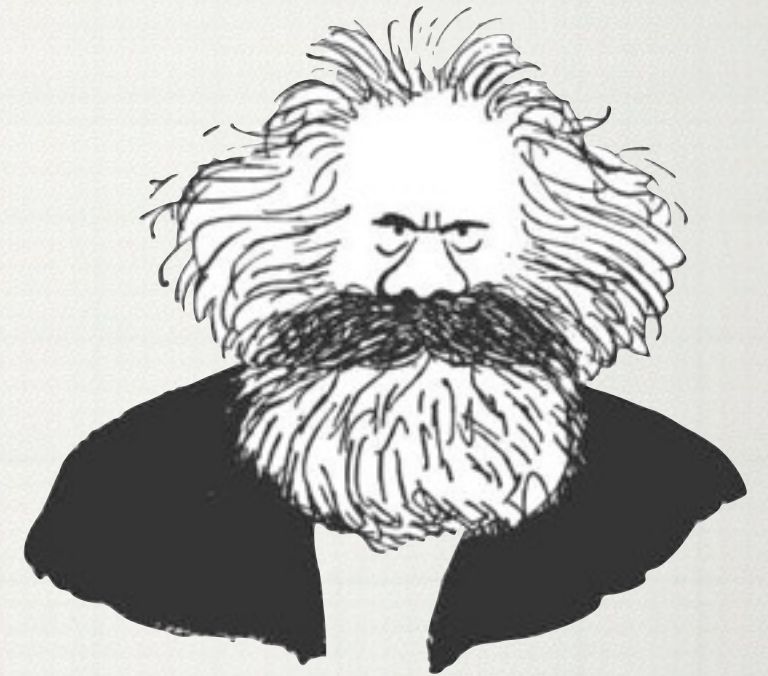


- ☐ **KARL MARX**



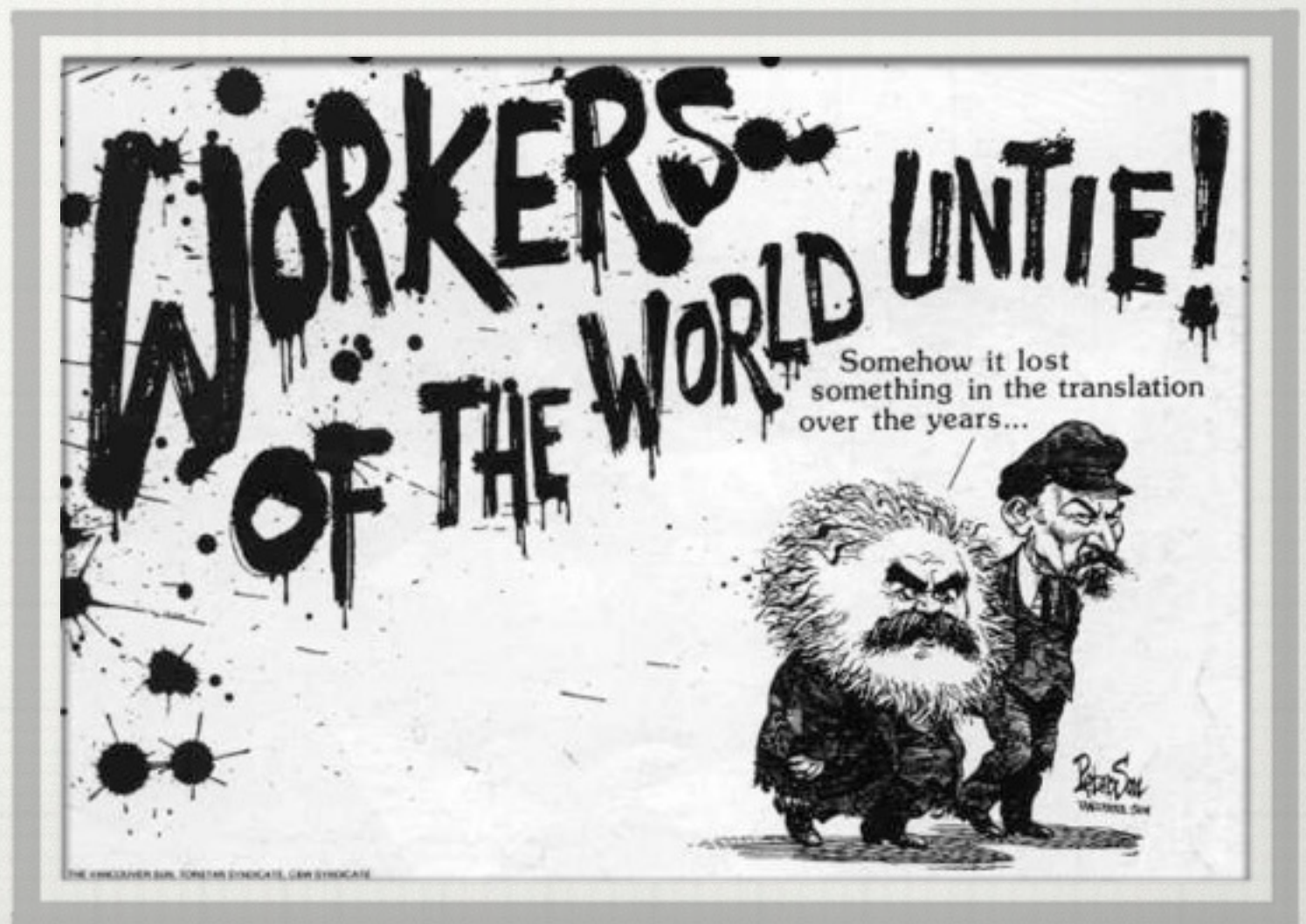
KARL MARX

- ☐ PhD in history & philosophy
- ☐ German but lived and wrote in London
- ☐ Works:
 - ☐ Communist Manifesto with Friedrich Engels
 - ☐ Das Kapital
- ☐ believed that history is pushed along by class conflict
(Dialectical Materialism)
- ☐ "from each according to his abilities, to each according to his needs"
- ☐ Proletariat: people who have nothing to offer but their labor
- ☐ Bourgeoisie: middle/upper-middle class



MARX'S STAGES OF HISTORY

- ☐ PRIMITIVE
- ☐ SLAVE
- ☐ FEUDALISM
- ☐ CAPITALISM
- ☐ SOCIALISM
- ☐ COMMUNISM

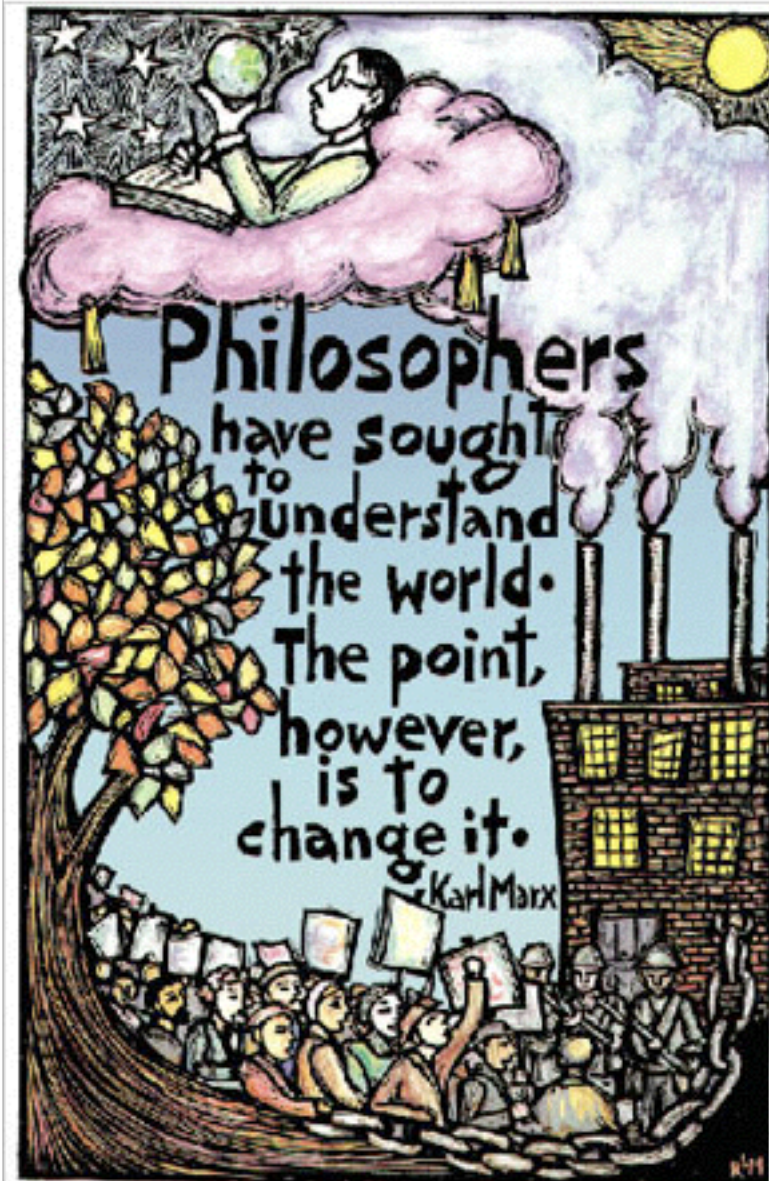




"When I give food
to the poor,
they call me a saint.

When I ask why the
poor have no food,
they call me a
communist."

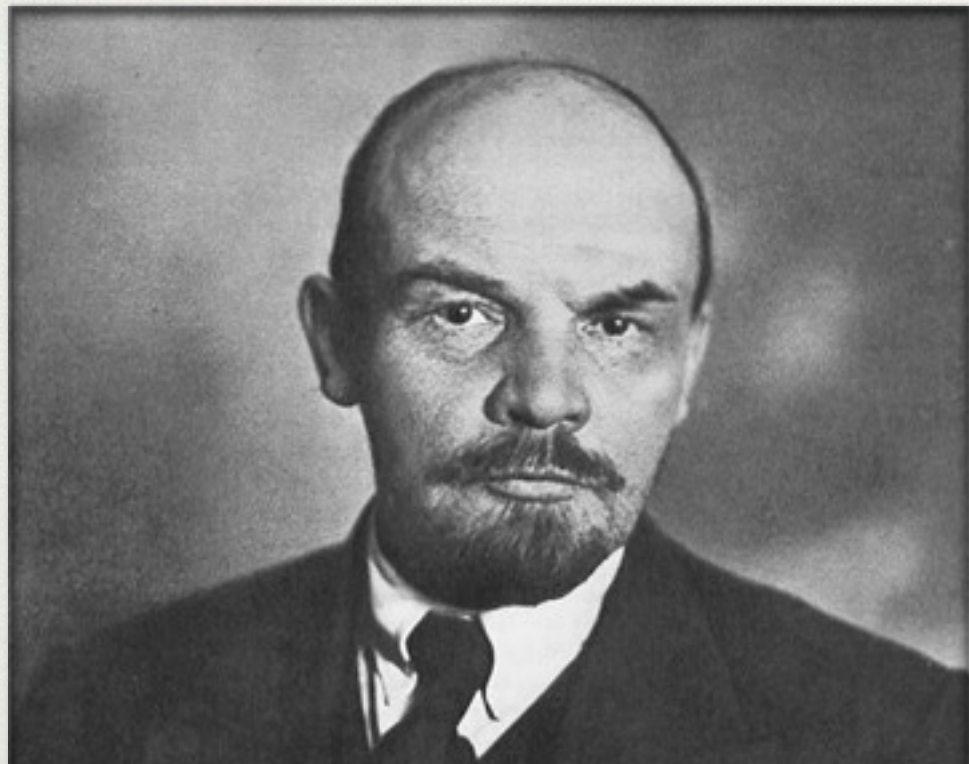
-Dom Helder Camera



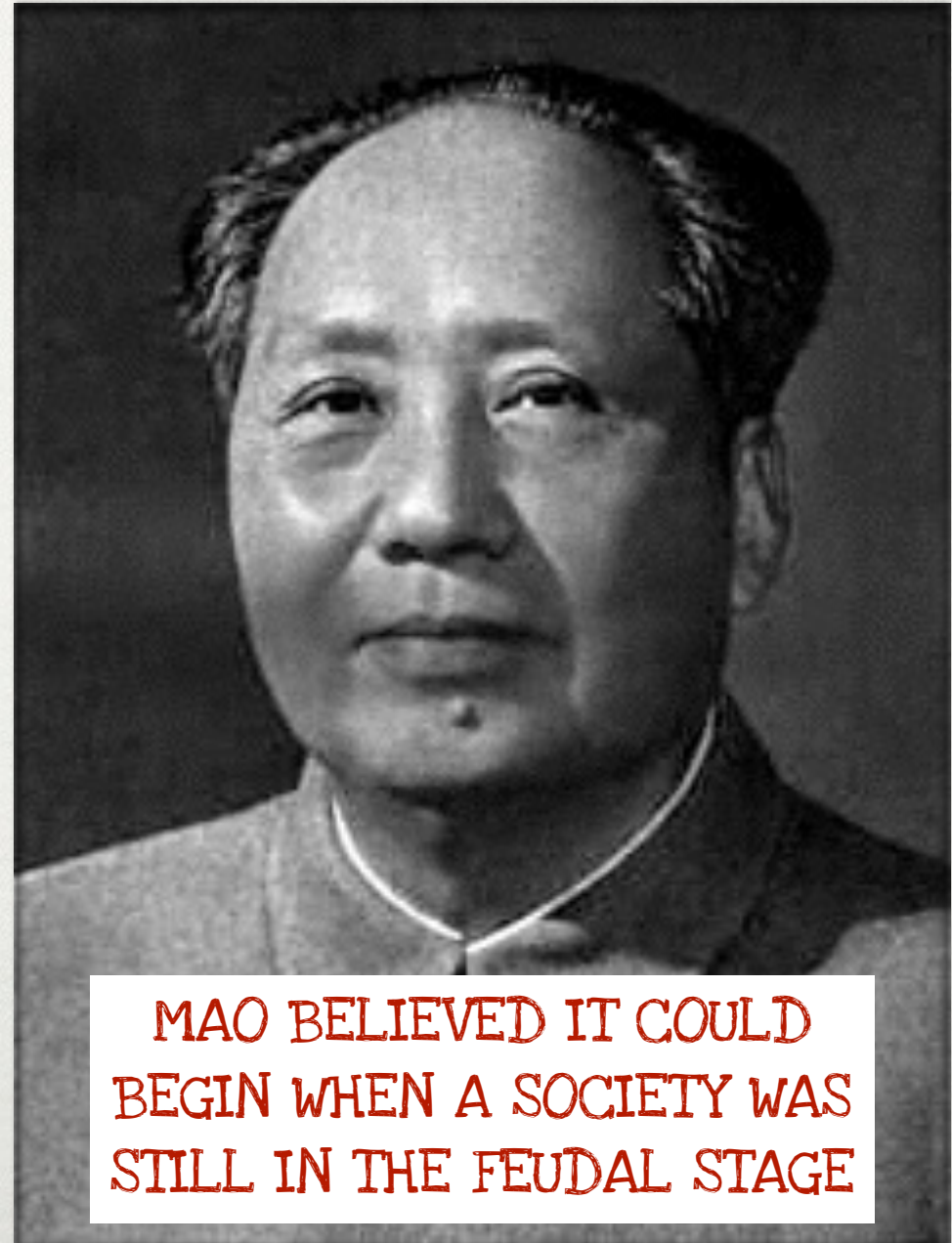


THE REVOLUTION WILL NOT BE TELEVISED!

OTHER REVOLUTIONARY SOCIALISTS



LENIN ARGUED
THAT A SOCIETY HAD
TO REACH
THE INDUSTRIAL STAGE
BEFORE THE REVOLUTION
COULD START



MAO BELIEVED IT COULD
BEGIN WHEN A SOCIETY WAS
STILL IN THE FEUDAL STAGE

SOCIALIST SYMBOLS

Stand up, all victims of oppression
For the tyrants fear your might
Don't cling so hard to your possessions
For you have nothing, if you have no rights
Let racist ignorance be ended
For respect makes the empires fall
Freedom is merely privilege extended
Unless enjoyed by one and all

Chorus:

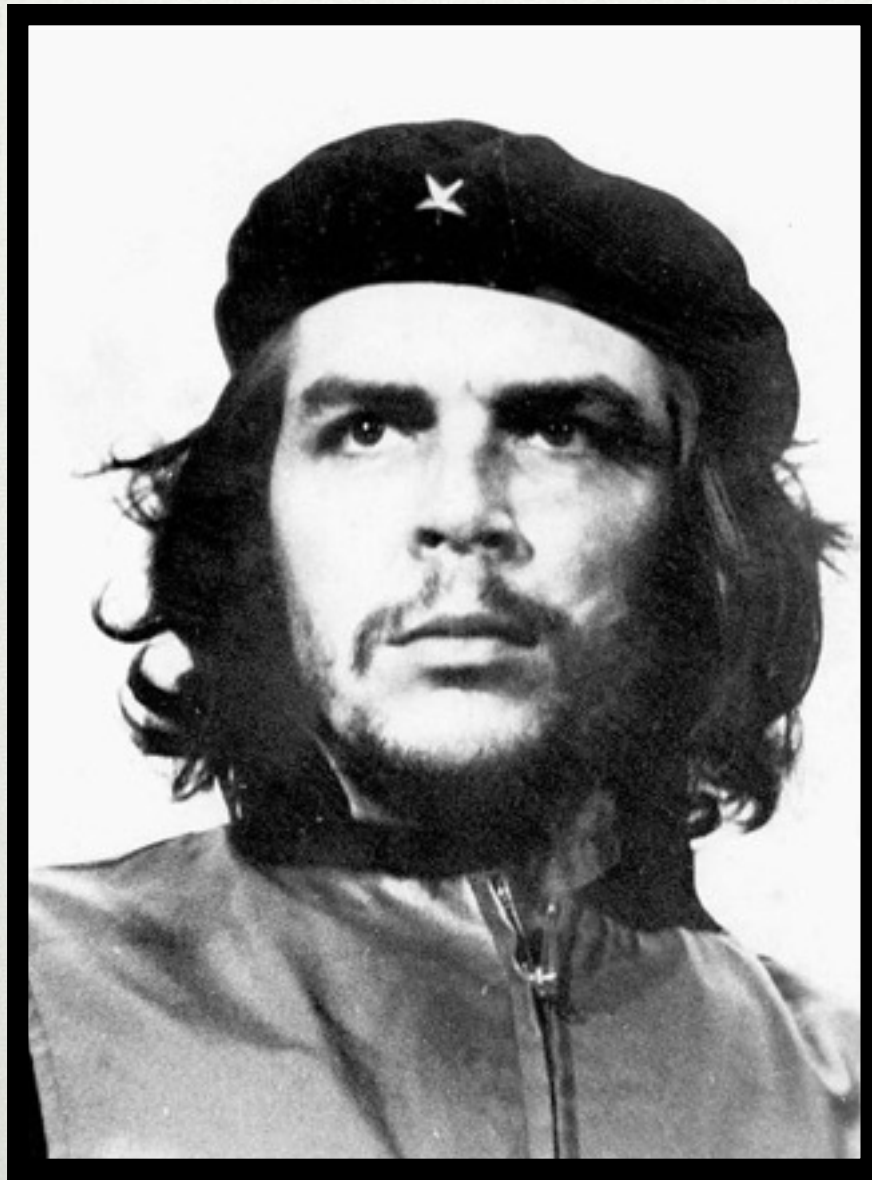
So come brothers and sisters
For the struggle carries on
The internationale
Unites the world in song
So comrades come rally
For this is the time and place
The international ideal
Unites the human race

Let no one build walls to divide us
Walls of hatred nor walls of stone
Come greet the dawn and stand beside us
We'll live together or we'll die alone
In our world poisoned by exploitation
Those who have taken, now they must give
And end the vanity of nations
We've but one earth on which to live

And so begins the final drama
In the streets and in the fields
We stand unbowed before their armour
We defy their guns and shields
When we fight, provoked by aggression
Let us be inspired by like and love
For though they offer us concessions
Change will not come from above

☐ anthem: Internationale

SOCIALIST SYMBOLS



□ Che Guavera

INTERNATIONALISTS VS NATIONALISTS

☐ NATIONALISTS

GOD LOVES US
BEST !!!

☐ NATIONALISTS

USA! USA! USA!

☐ FASCISTS

☐ "WE'RE THE BEST!!"



IF YOU THINK YOU LIVE IN A
PERFECT WORLD / COUNTRY ...



... YOU REALLY HAVE NO IMAGINATION.

SNOTM.COM

EVOLUTIONARY SOCIALISM

- ☐ Democratic Socialist Parties in Europe
 - ☐ Labor Party in England
- ☐ Used peaceful and democratic means to achieve a Socialist Society
- ☐ government should only own the key industries

TRADE UNION MOVEMENT

- ☐ Didn't want to destroy capitalism
- ☐ wanted to make it more responsive the needs of the workers
 - ☐ increase wages
 - ☐ better hours
 - ☐ better working conditions
- ☐ initially it was outlawed
 - ☐ led to strikes and violence





THE END!