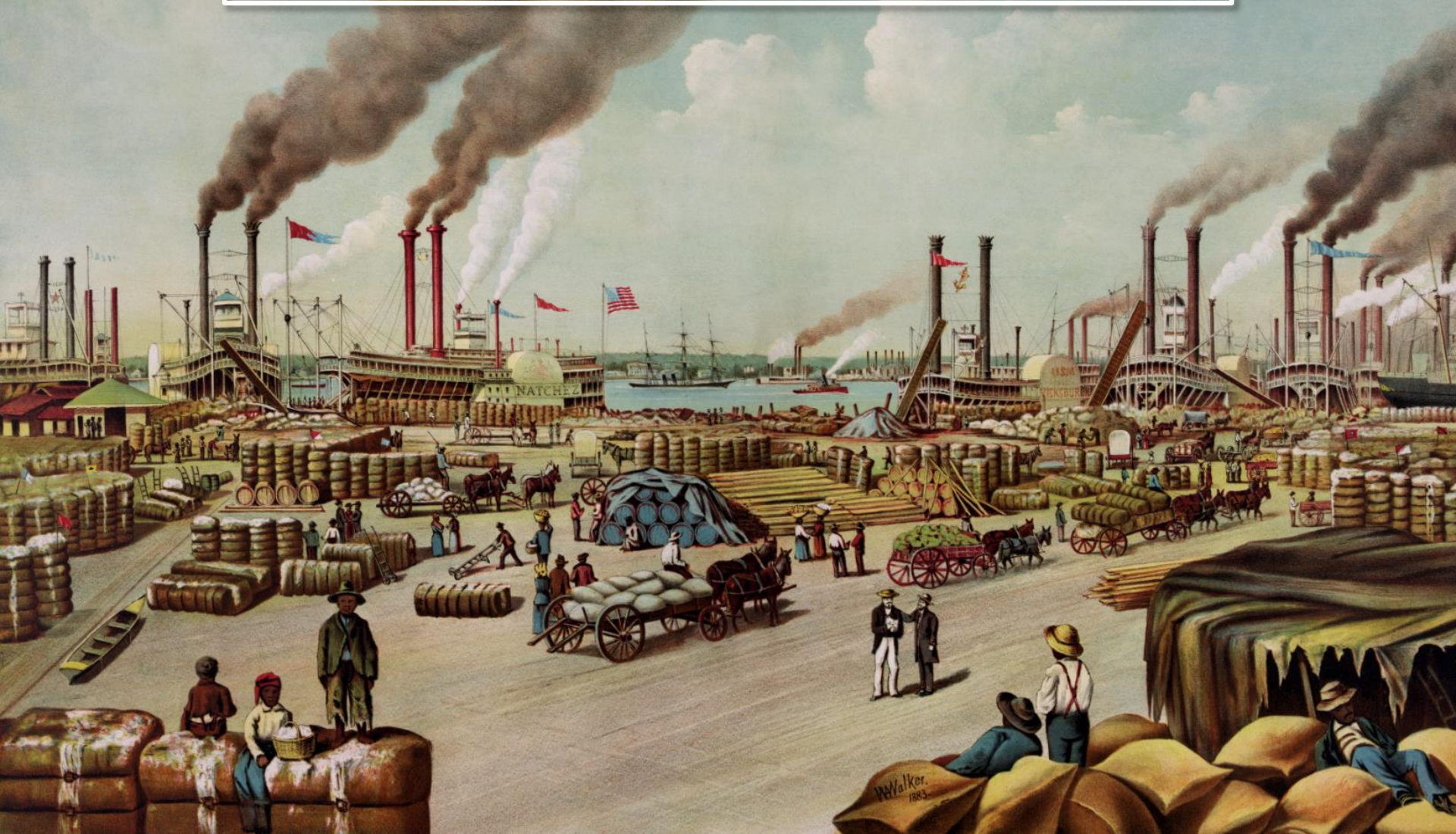


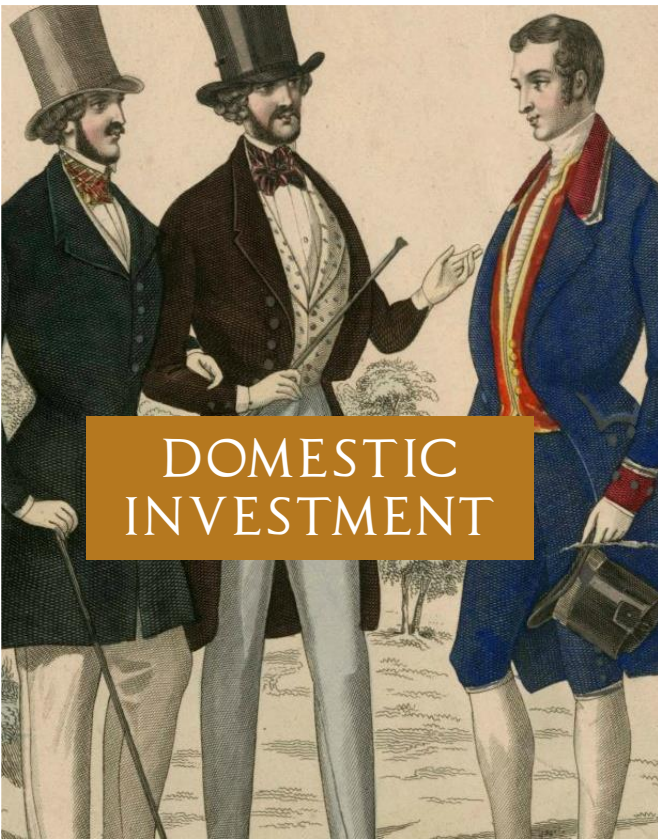
# INDUSTRIAL & MARKET REVOLUTIONS



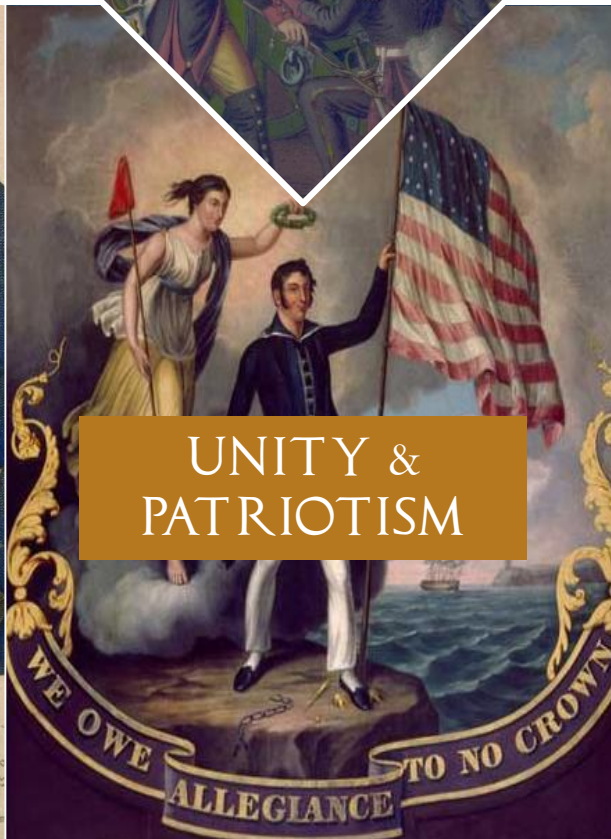


# WAR OF 1812

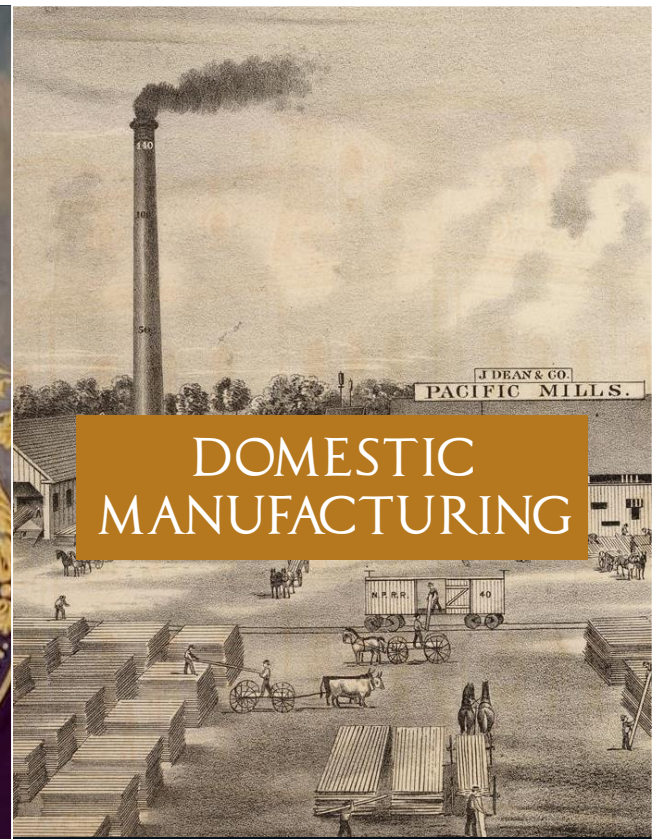
## LEADS TO



DOMESTIC  
INVESTMENT



UNITY &  
PATRIOTISM



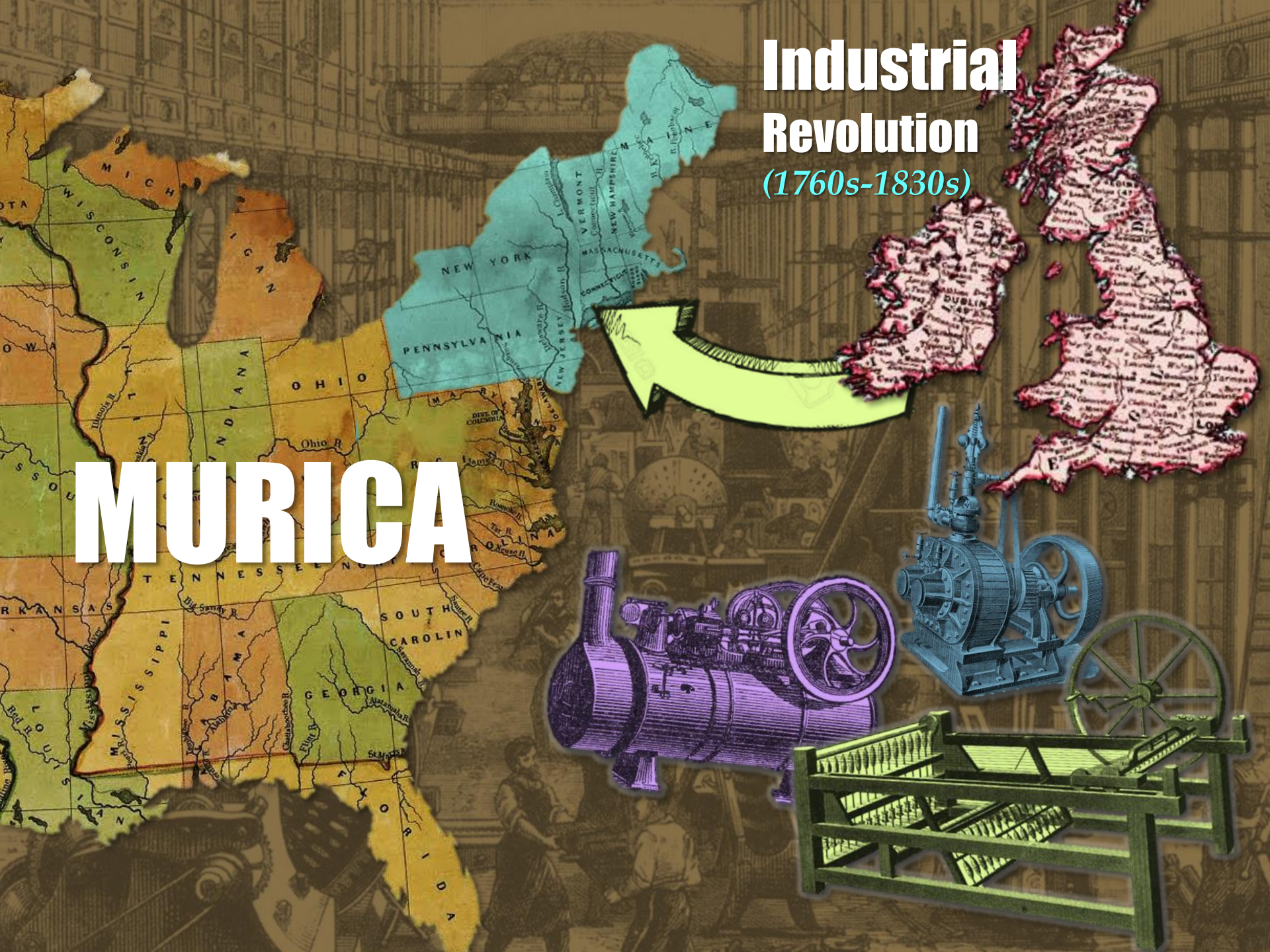
DOMESTIC  
MANUFACTURING



# Industrial Revolution

(1760s-1830s)

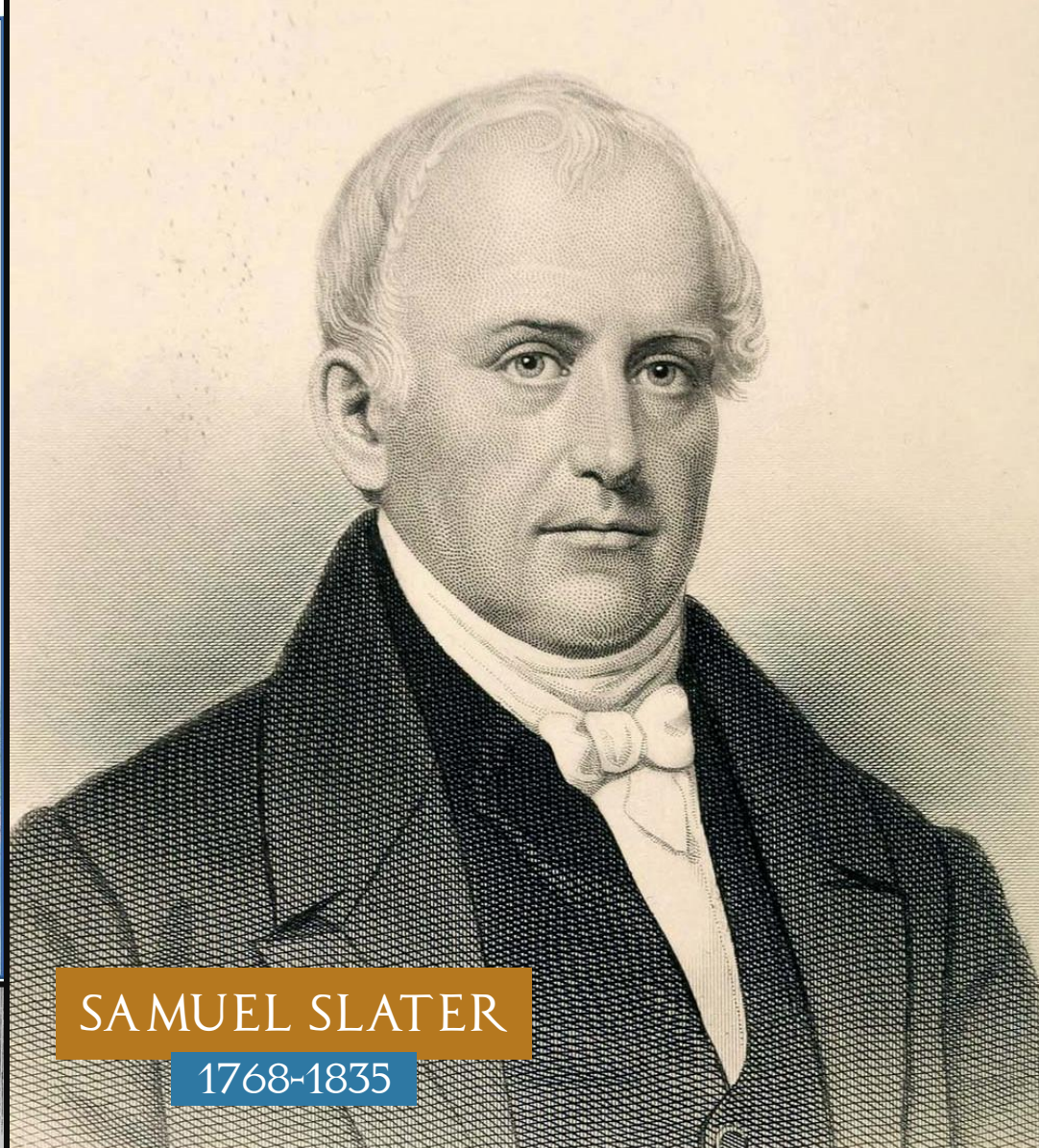
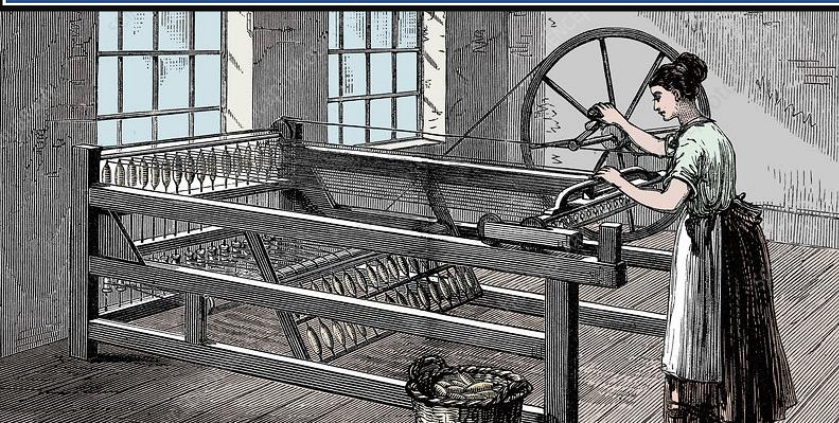
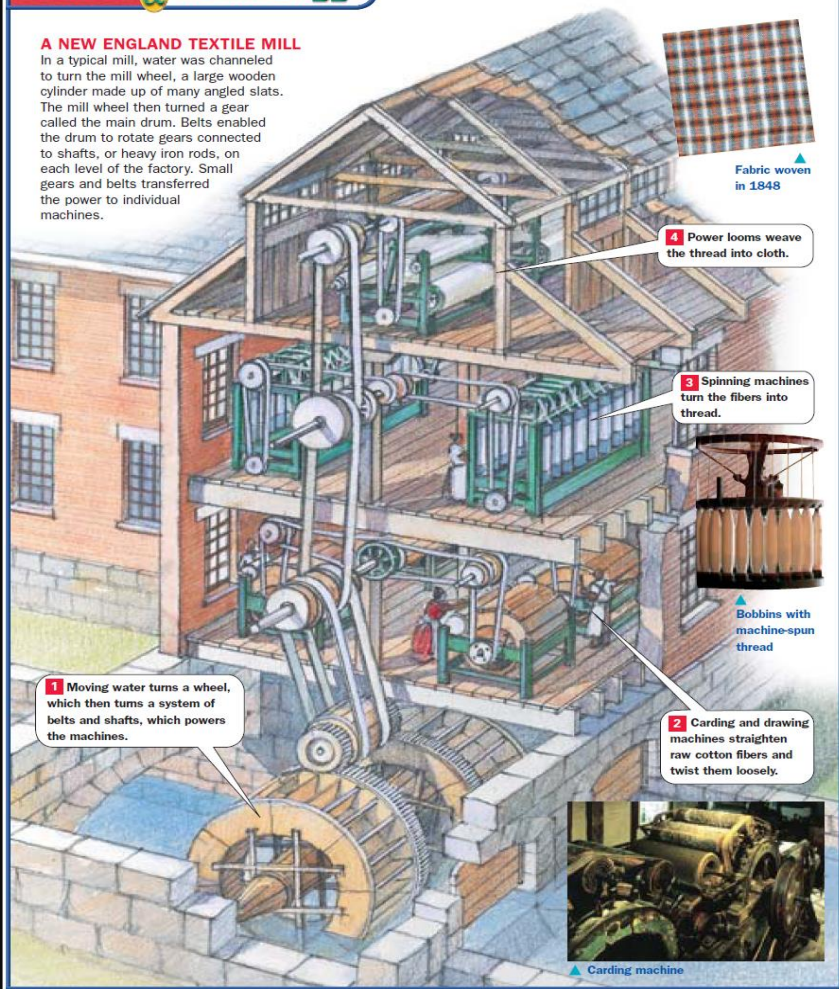
# MURICA





### A NEW ENGLAND TEXTILE MILL

In a typical mill, water was channeled to turn the mill wheel, a large wooden cylinder made up of many angled slats. The mill wheel then turned a gear called the main drum. Belts enabled the drum to rotate gears connected to shafts, or heavy iron rods, on each level of the factory. Small gears and belts transferred the power to individual machines.



SAMUEL SLATER

1768-1835

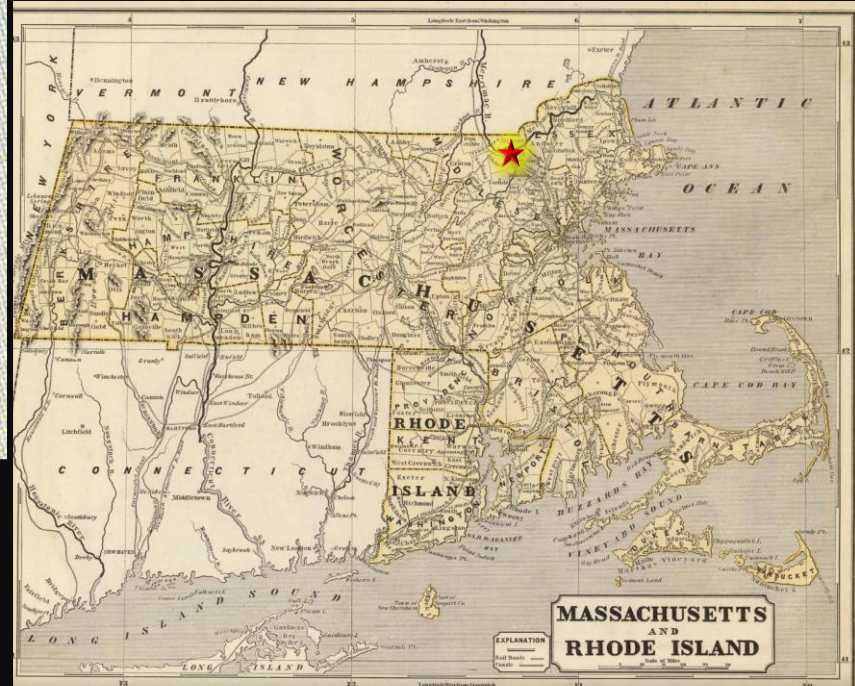
1<sup>ST</sup> TO BRING BRITISH SPINNING  
MILL TECHNOLOGY TO AMERICA





FRANCIS CABOT LOWELL  
1775-1817

1<sup>ST</sup> TO CREATE INTEGRATED  
SPINNING & WEAVING MILL IN USA



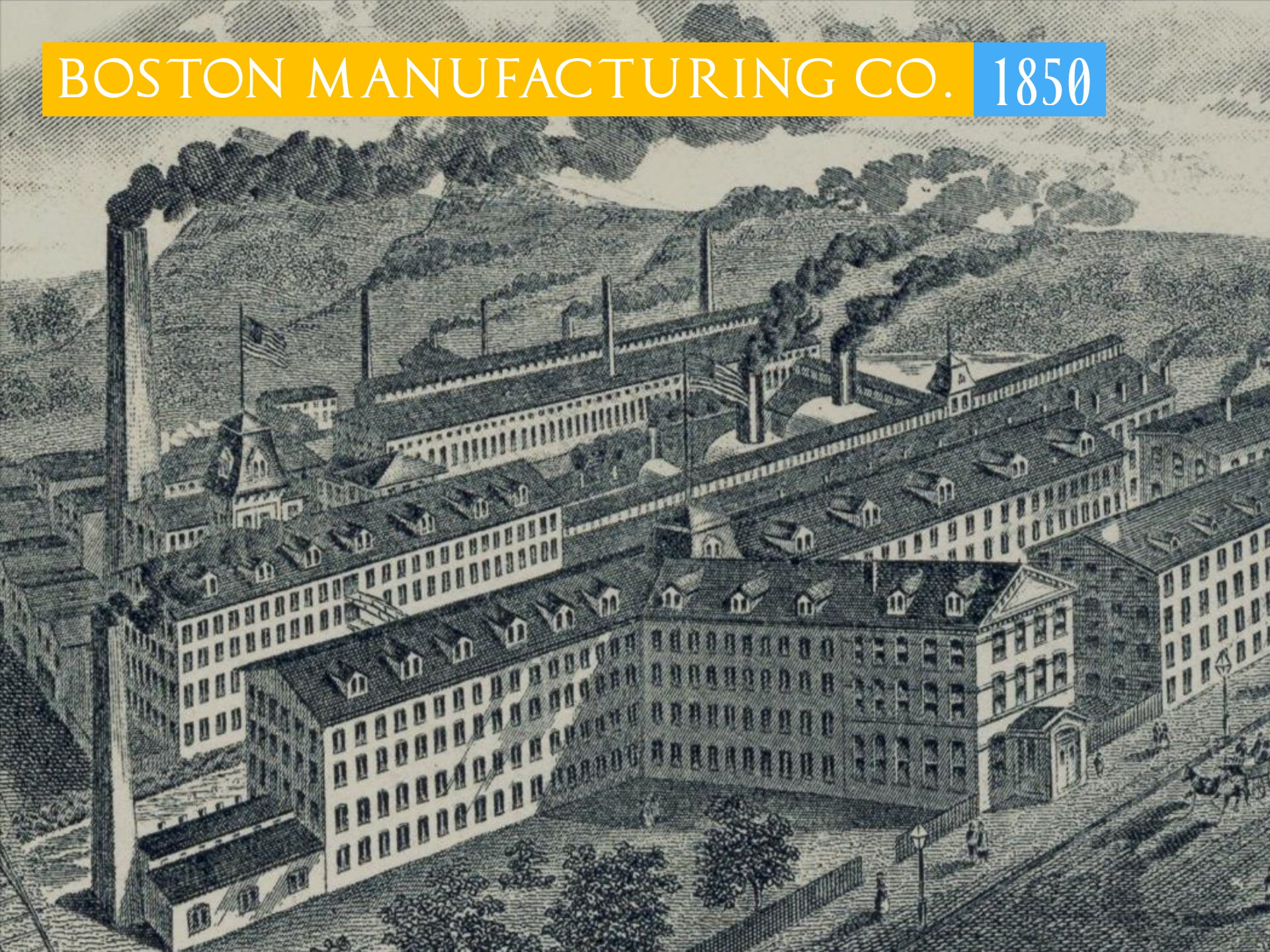


# BOSTON MANUFACTURING CO. 1813





# BOSTON MANUFACTURING CO. 1850









# LOWELL MILL GIRLS

## 75 Young Women

From 15 to 35 Years of Age,

WANTED TO WORK IN THE

## COTTON MILLS!

IN LOWELL AND CHICOPEE, MASS.

I am authorized by the Agents of said Mills to make the following proposition to persons suitable for their work, viz:—They will be paid \$1.00 per week, and board, for the first month. It is presumed they will then be able to go to work at job prices. They will be considered as engaged for one year, cases of sickness excepted. I will pay the expenses of those who have not the means to pay for themselves, and the girls will pay it to the Company by their first labor. All that remain in the employ of the Company eighteen months will have the amount of their expenses to the Mills refunded to them. They will be properly cared for in sickness. It is hoped that none will go except those whose circumstances will admit of their staying at least one year. None but active and healthy girls will be engaged for this work, as it would not be advisable for either the girls or the Company.

I shall be at the Howard Hotel, Burlington, on Monday, July 25th; at Farnham's, St Albans, Tuesday forenoon, 26th, at Keyse's, Swanton, in the afternoon; at the Massachusetts' House, Rouses Point, on Wednesday, the 27th, to engage girls,—such as would like a place in the Mills would do well to improve the present opportunity, as new hands will not be wanted late in the season. I shall start with my Company, for the Mills, on Friday morning, the 29th inst., from Rouses Point, at 6 o'clock. Such as do not have an opportunity to see me at the above places, can take the cars and go with me the same as though I had engaged them.

I will be responsible for the safety of all baggage that is marked in care of J. M. BOYNTON, and delivered to my charge.

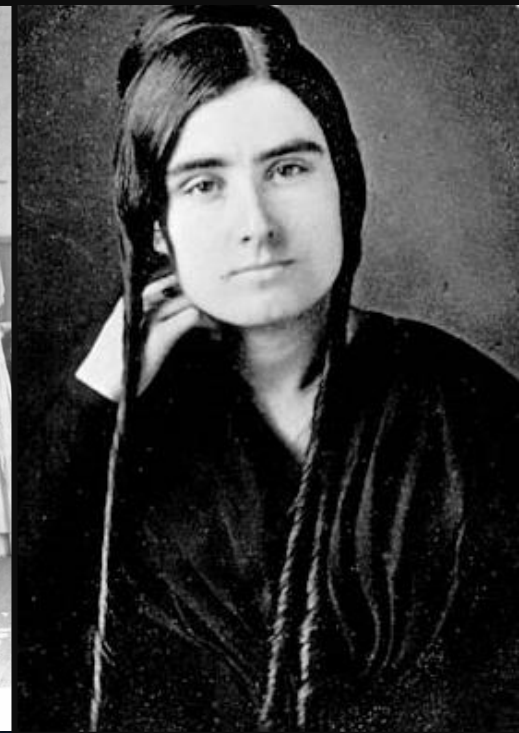
**J. M. BOYNTON,**

Agent for Procuring Help for the Mills.





# LOWELL MILL GIRLS





# TIME TABLE OF THE LOWELL MILLS,

Arranged to make the working time throughout the year average 11 hours per day.

TO TAKE EFFECT SEPTEMBER 21st, 1853.

The Standard time being that of the meridian of Lowell, as shown by the Regulator Clock of AMOS SANBORN, Post Office Corner, Central Street.

## From March 20th to September 19th, inclusive.

COMMENCE WORK, at 6.30 A. M. LEAVE OFF WORK, at 6.30 P. M., except on Saturday Evenings.  
BREAKFAST at 6 A. M. DINNER, at 12 M. Commence Work, after dinner, 12.45 P. M.

## From September 20th to March 19th, inclusive.

COMMENCE WORK at 7.00 A. M. LEAVE OFF WORK, at 7.00 P. M., except on Saturday Evenings.  
BREAKFAST at 6.30 A. M. DINNER, at 12.30 P. M. Commence Work, after dinner, 1.15 P. M.

## BELLS.

### From March 20th to September 19th, inclusive.

#### Morning Bells.

First bell,.....4.30 A. M.  
Second, 5.30 A. M.; Third, 6.20.

#### Dinner Bells.

Ring out,.....12.00 M.  
Ring in,.....12.35 P. M.

#### Evening Bells.

Ring out,.....6.30 P. M.  
Except on Saturday Evenings.

### From September 20th to March 19th, inclusive.

#### Morning Bells.

First bell,.....5.00 A. M.  
Second, 6.00 A. M.; Third, 6.50.

#### Dinner Bells.

Ring out,.....12.30 P. M.  
Ring in,.....1.05 P. M.

#### Evening Bells.

Ring out at.....7.00 P. M.  
Except on Saturday Evenings.

## SATURDAY EVENING BELLS.

During APRIL, MAY, JUNE, JULY, and AUGUST, Ring Out, at 6.00 P. M.

The remaining Saturday Evenings in the year, ring out as follows:

#### SEPTEMBER.

First Saturday, ring out 6.00 P. M.  
Second " " 5.45 "  
Third " " 5.30 "  
Fourth " " 5.20 "

#### NOVEMBER.

Third Saturday ring out 4.00 P. M.  
Fourth " " 3.55 "

#### JANUARY.

Third Saturday, ring out 4.25 P. M.  
Fourth " " 4.35 "

#### DECEMBER.

First Saturday, ring out 3.50 P. M.  
Second " " 3.55 "  
Third " " 3.55 "  
Fourth " " 4.00 "  
Fifth " " 4.00 "

#### FEBRUARY.

First Saturday, ring out 4.45 P. M.  
Second " " 4.55 "  
Third " " 5.00 "  
Fourth " " 5.10 "

#### OCTOBER.

First Saturday, ring out 5.05 P. M.  
Second " " 4.55 "  
Third " " 4.45 "  
Fourth " " 4.35 "  
Fifth " " 4.25 "

#### NOVEMBER.

First Saturday, ring out 4.15 P. M.  
Second " " 4.05 "

#### JANUARY.

First Saturday, ring out 4.10 P. M.  
Second " " 4.15 "

#### MARCH.

First Saturday, ring out 5.25 P. M.  
Second " " 5.30 "  
Third " " 5.35 "  
Fourth " " 5.45 "

YARD GATES will be opened at the first stroke of the bells for entering or leaving the Mills.

SPEED GATES commence hoisting three minutes before commencing work.





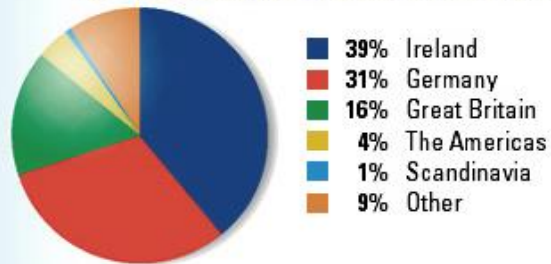
# MASS IMMIGRATION (GERMANS & IRISH)



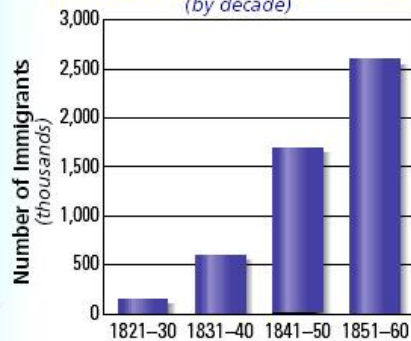


# Immigration and Settlement, 1820–1860

Sources of Immigration, 1820–1860

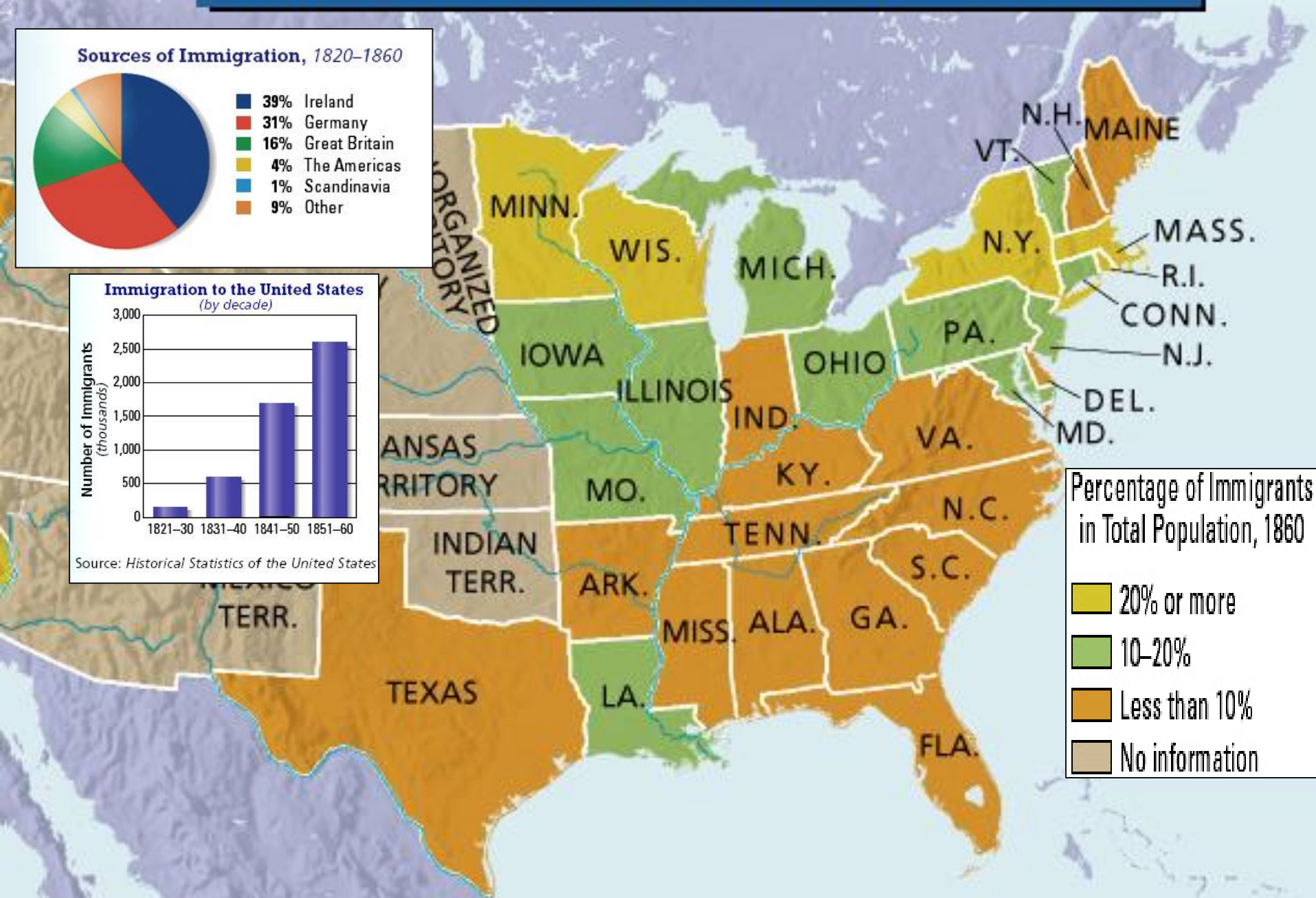
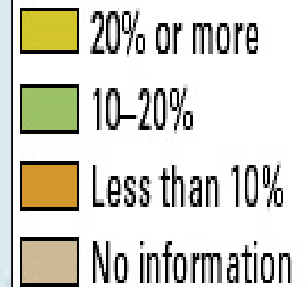


Immigration to the United States  
(by decade)



Source: Historical Statistics of the United States

Percentage of Immigrants  
in Total Population, 1860

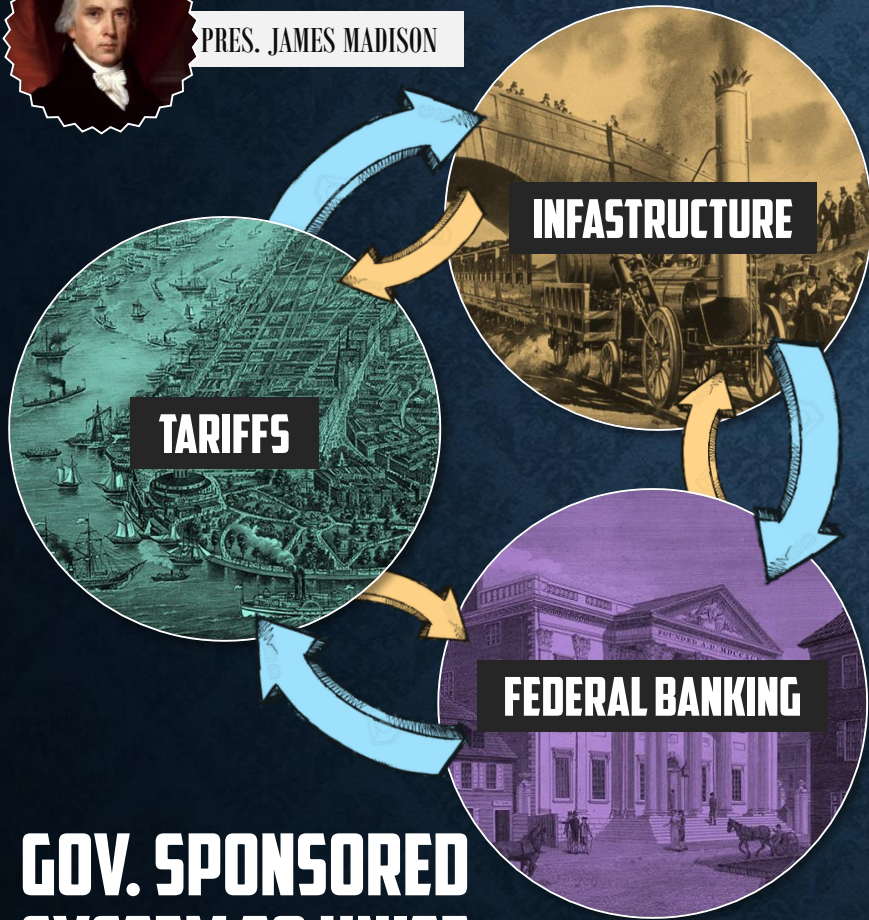




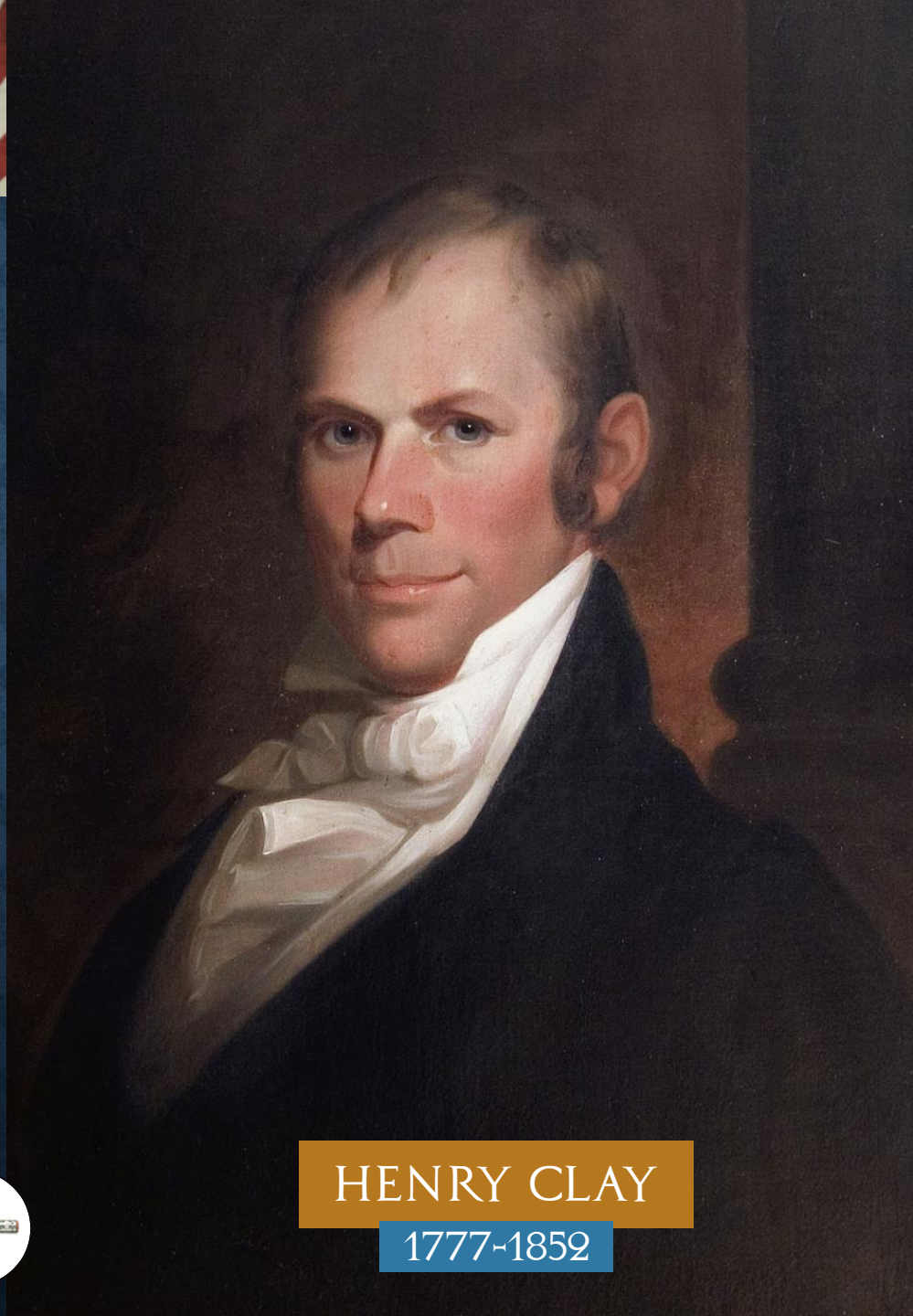
# THE AMERICAN SYSTEM



PRES. JAMES MADISON



**GOV. SPONSORED  
SYSTEM TO UNITE  
THE COUNTRY ECONOMICALLY  
& PREVENT FOREIGN THREATS**



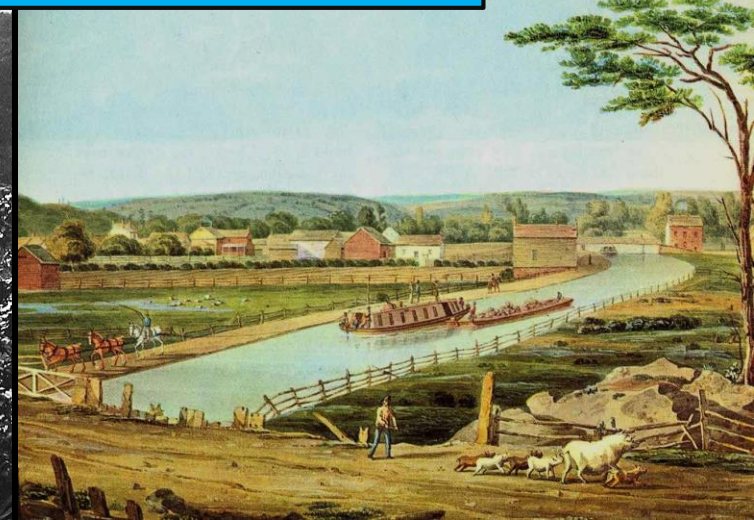
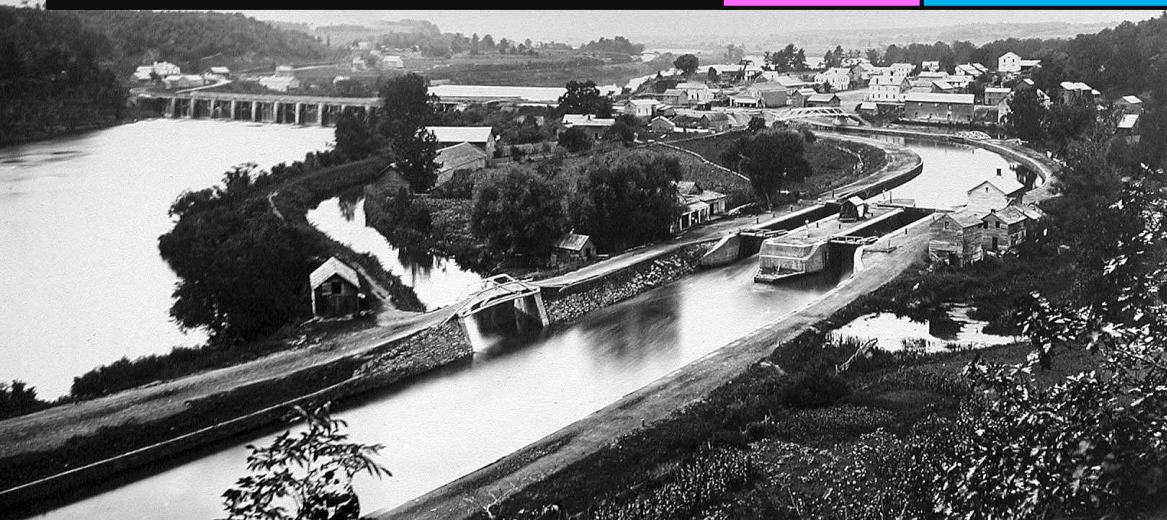
HENRY CLAY

1777-1852





ERIE CANAL 1825 363 MILES, 36 LOCKS, 8 YRS

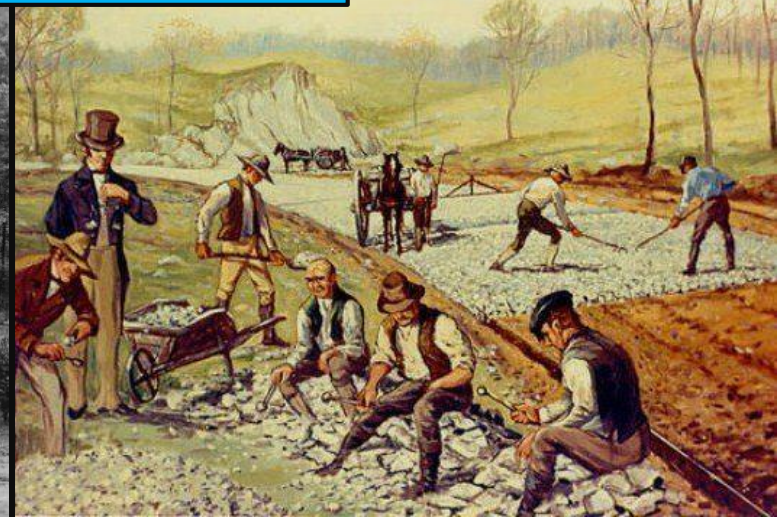




# THE NATIONAL ROAD (1850)



**NATIONAL RD 1834 620 MILES, 23 YRS**





# INFRASTRUCTURE REVOLUTION

1830

- ROADS
- CANALS
- RAILROADS



1840

- ROADS
- CANALS
- RAILROADS



1850

- ROADS
- CANALS
- RAILROADS



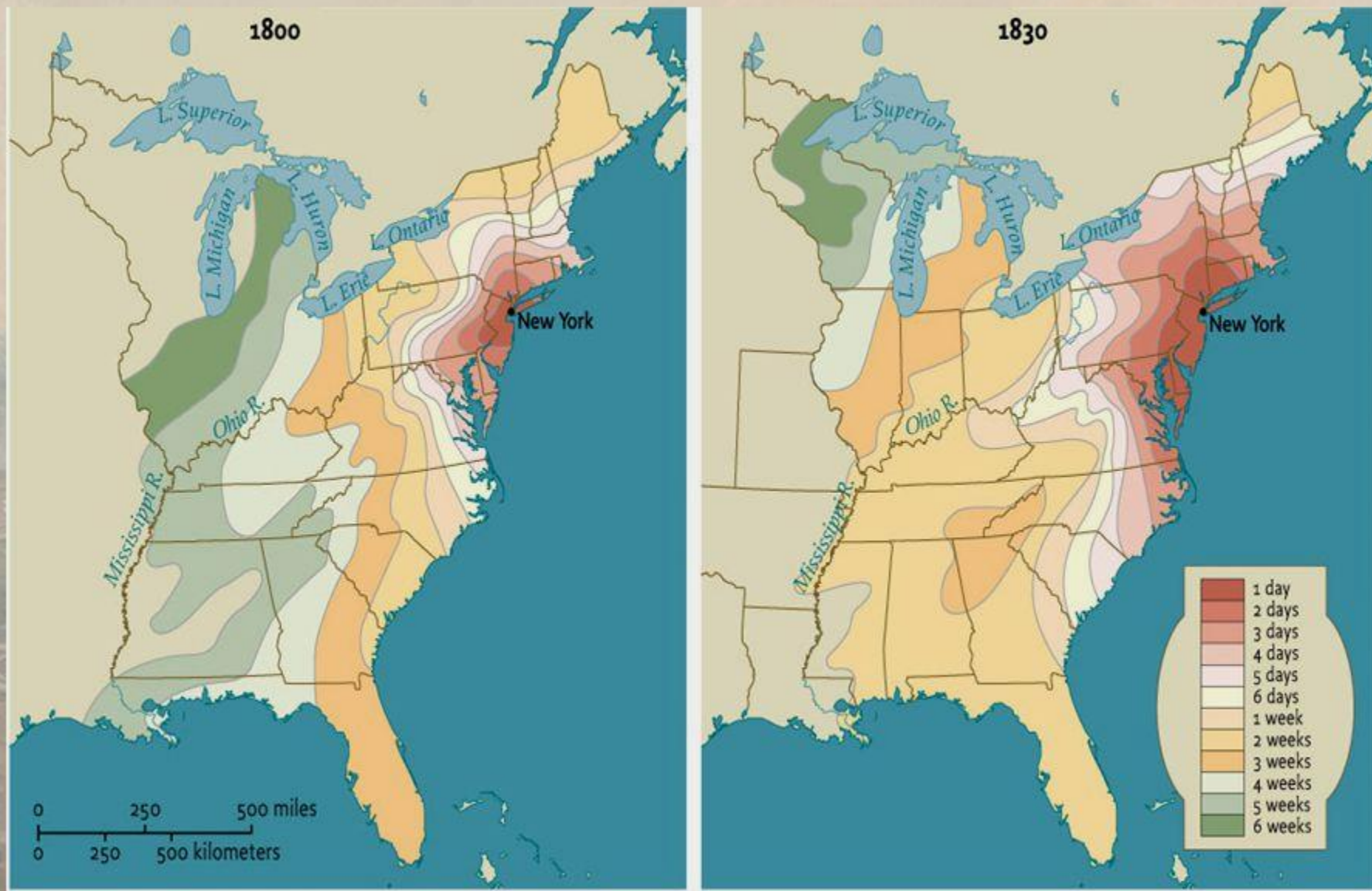
1860

- ROADS
- CANALS
- RAILROADS

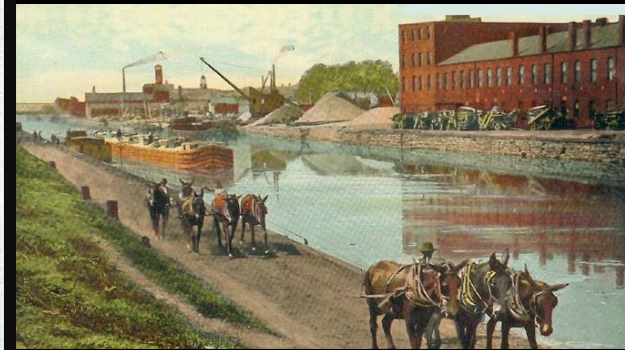
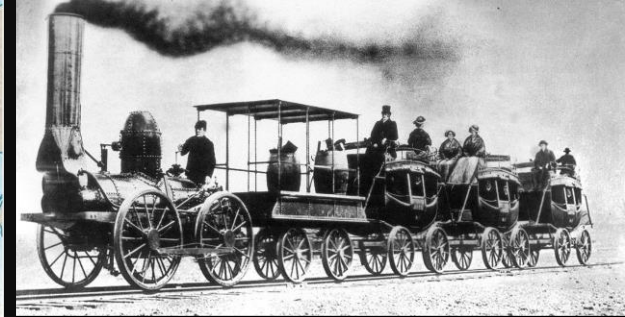




Map 9.3 Travel times from New York City in 1800 and 1830









# Sectional Economics

## NORTH

*INDUSTRIAL: TEXTILES,  
SMALL FARMING*

## SOUTH

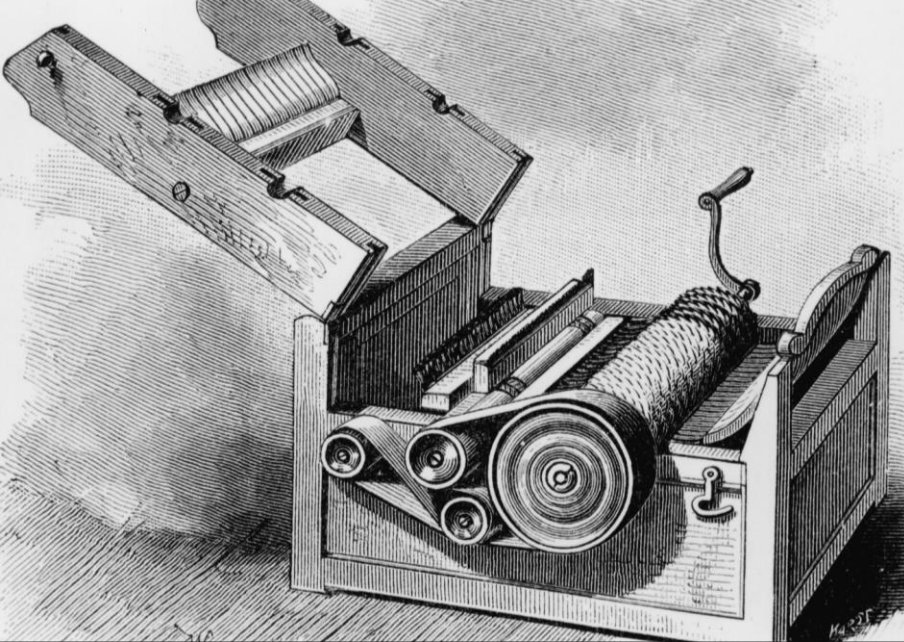
*AGRARIAN:  
COTTON & TABACO*

## WEST

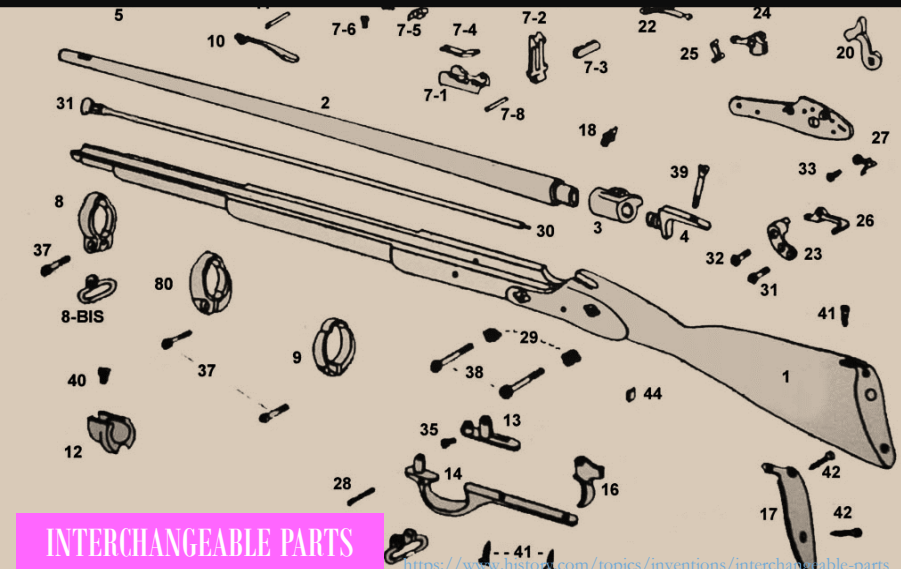
*AGRARIAN:  
"BREAD BASKET"*







# COTTON GIN (1793)



ELI WHITNEY

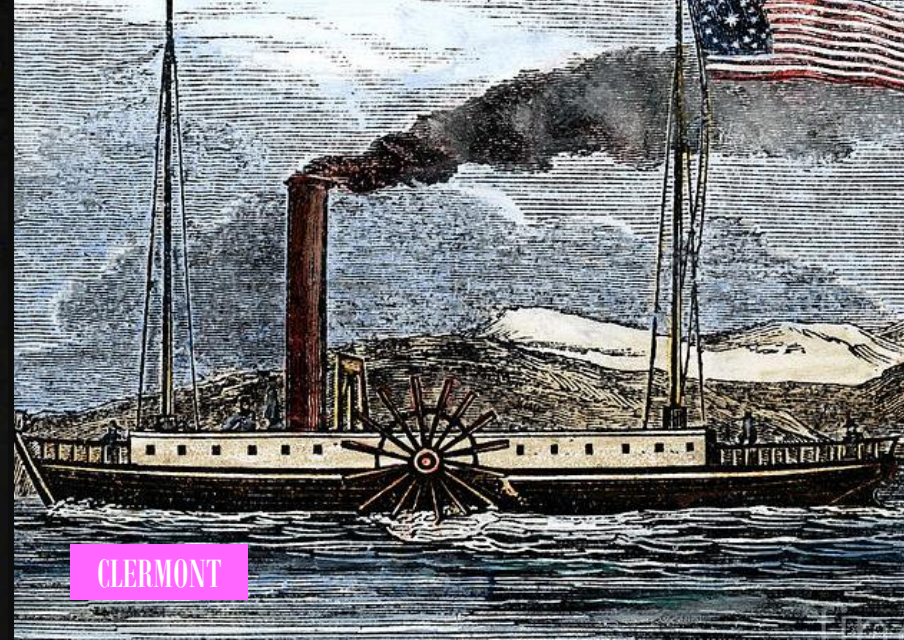
1765-1825





ROBERT FULTON

1765-1815



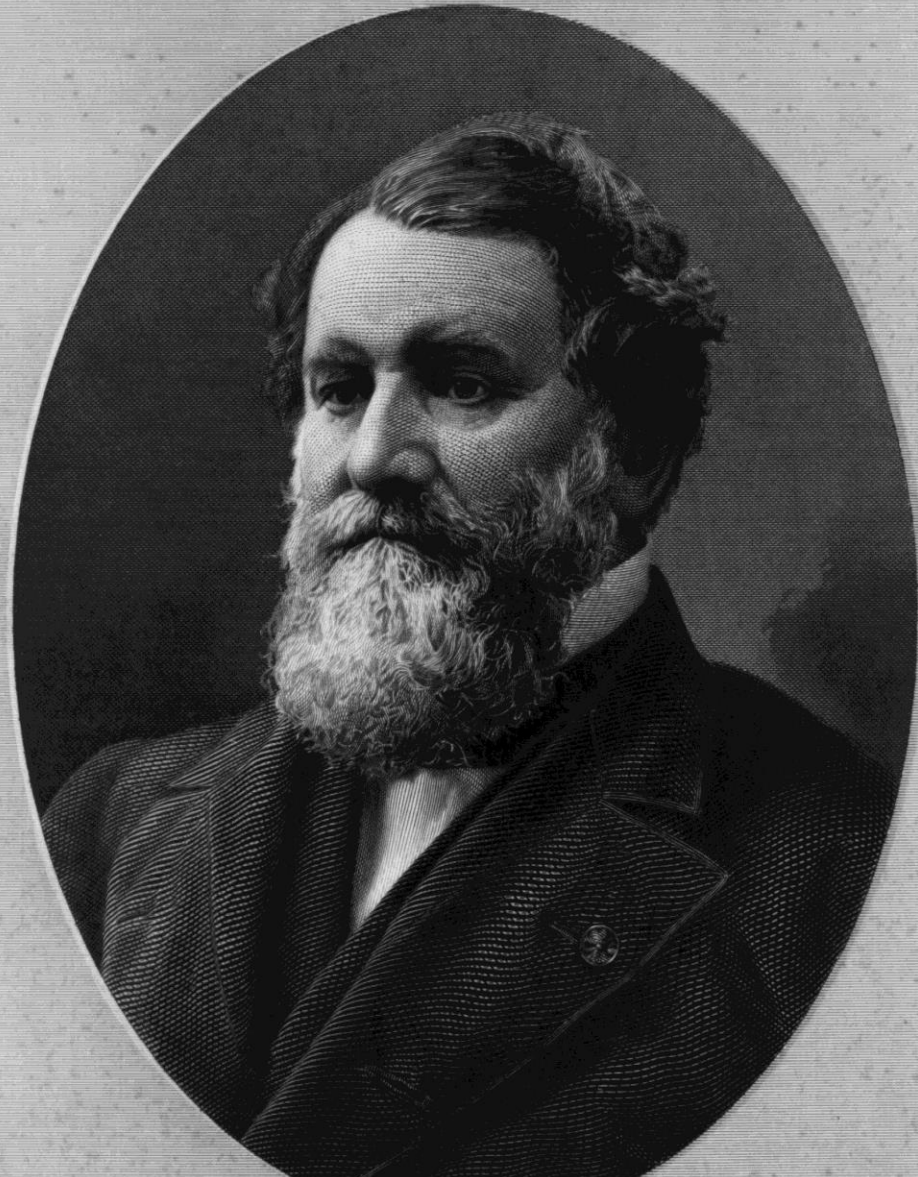
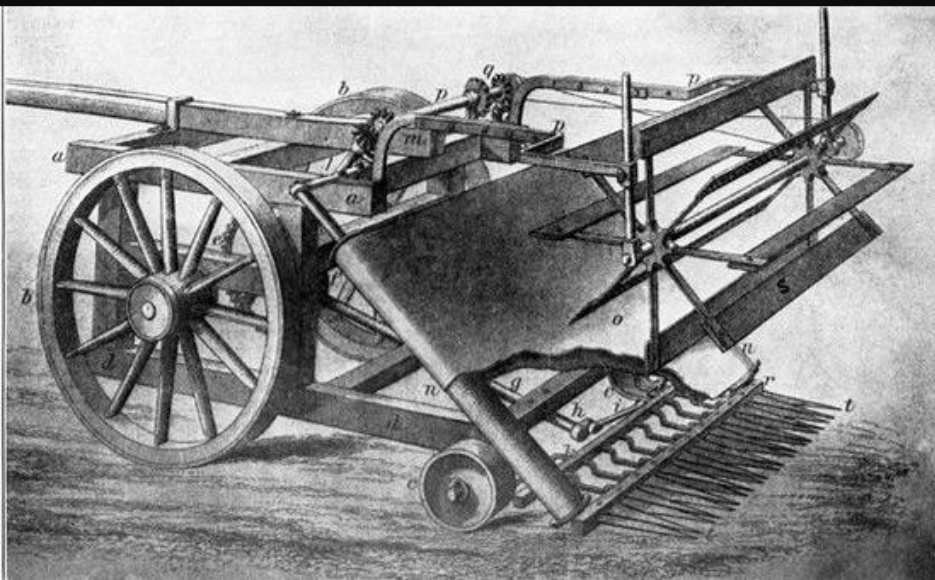
# STEAMBOAT (1807)







## MECHANICAL REAPER (1834)



CYRUS MCCORMICK

1809-1884





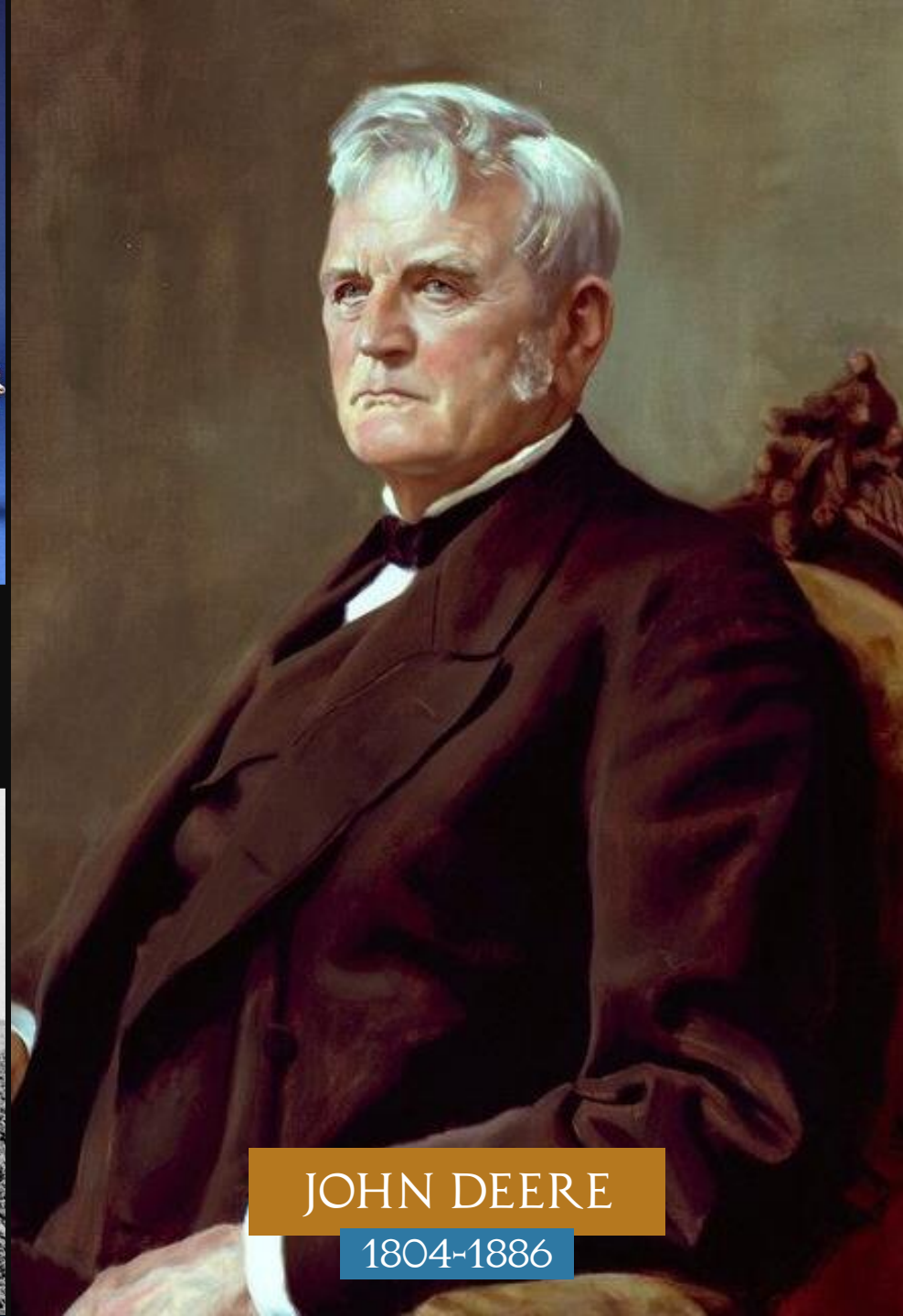
# STEEL PLOW (1837)



24 HRS AN ACRE



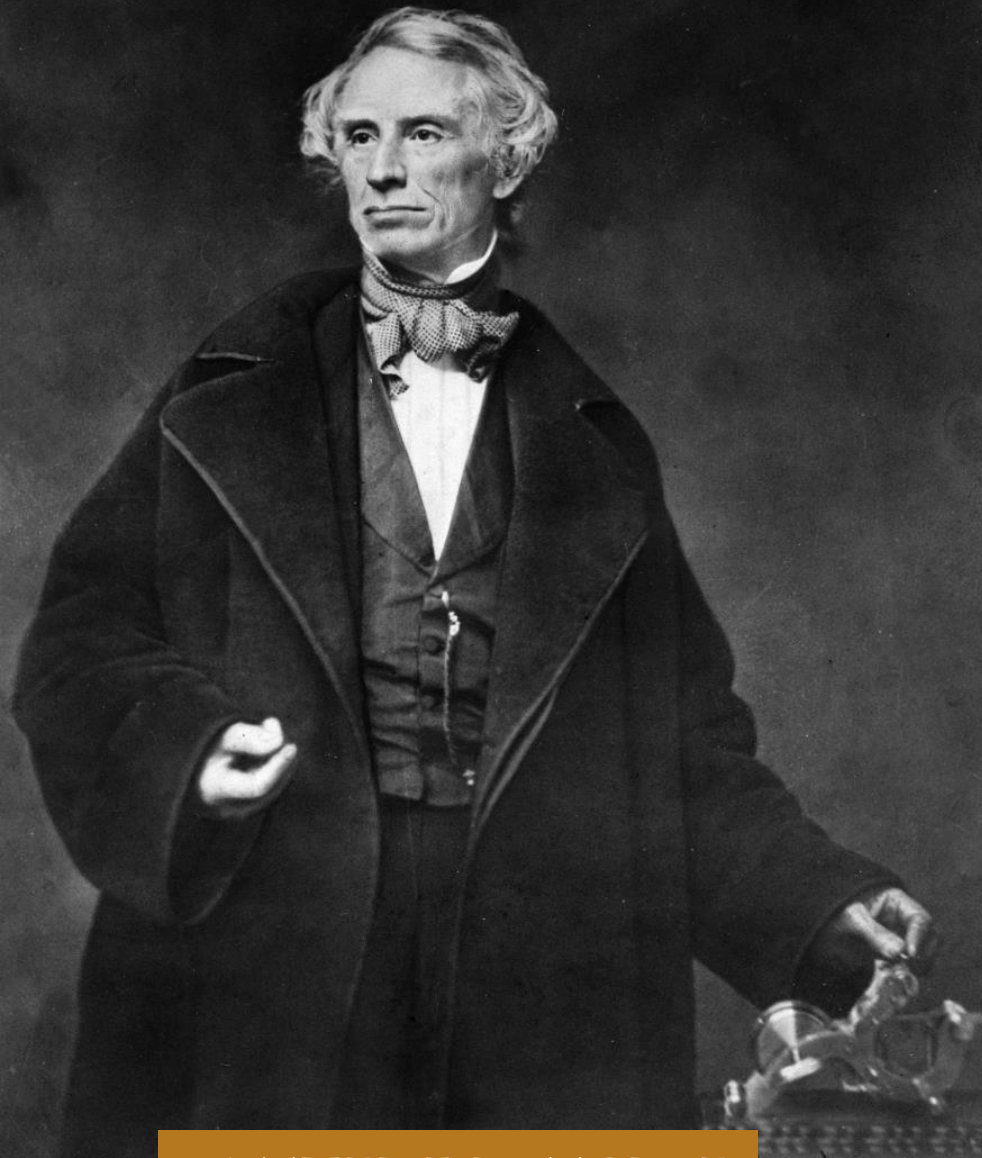
5-8 HRS AN ACRE



JOHN DEERE

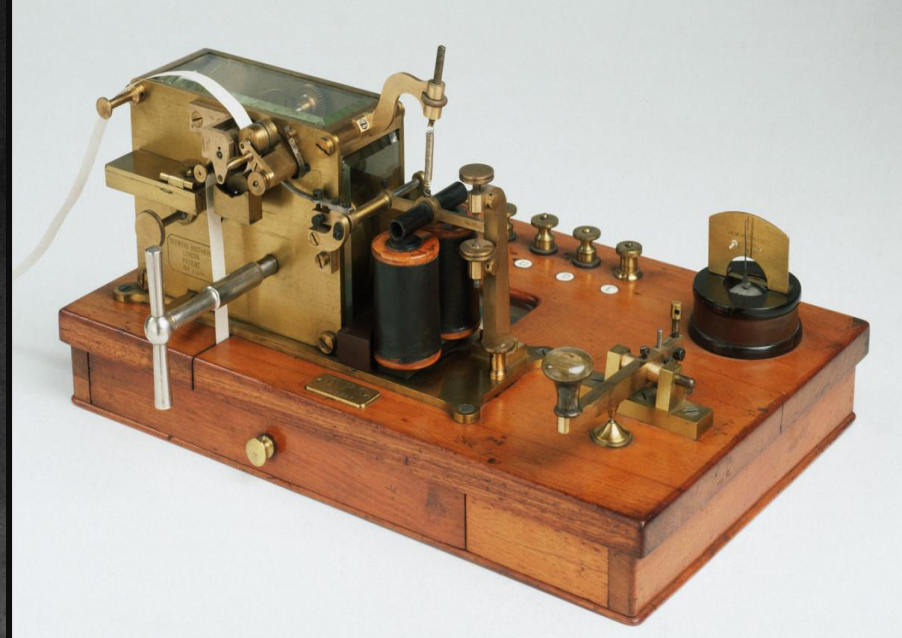
1804-1886



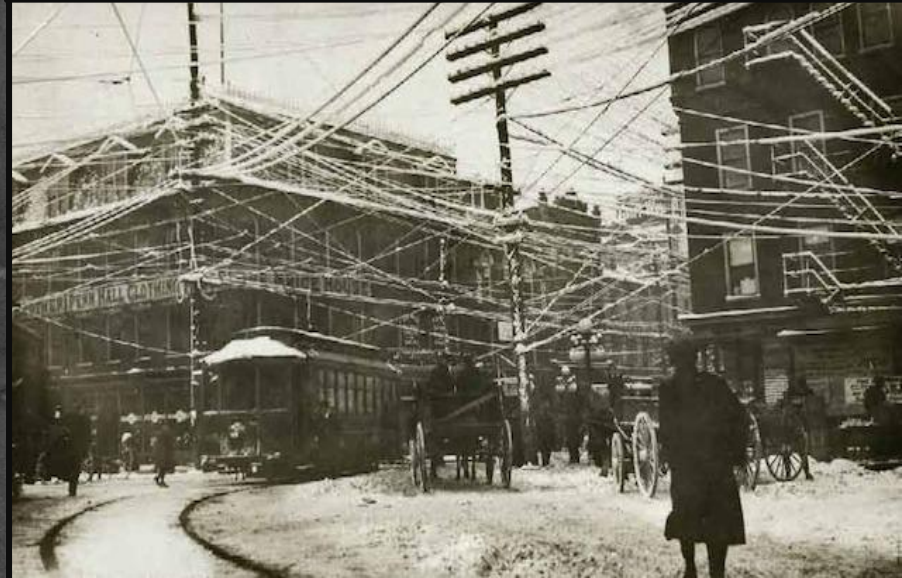


SAMUEL F.B. MORSE

1791-1872



# TELEGRAPH (1844)



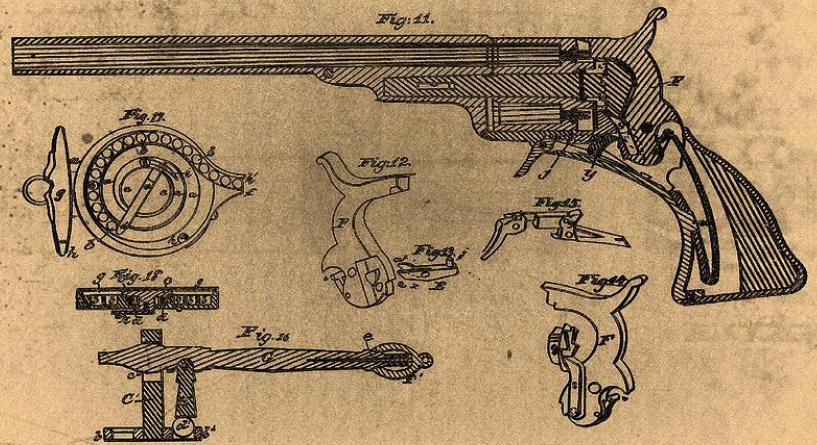




SAMUEL COLT

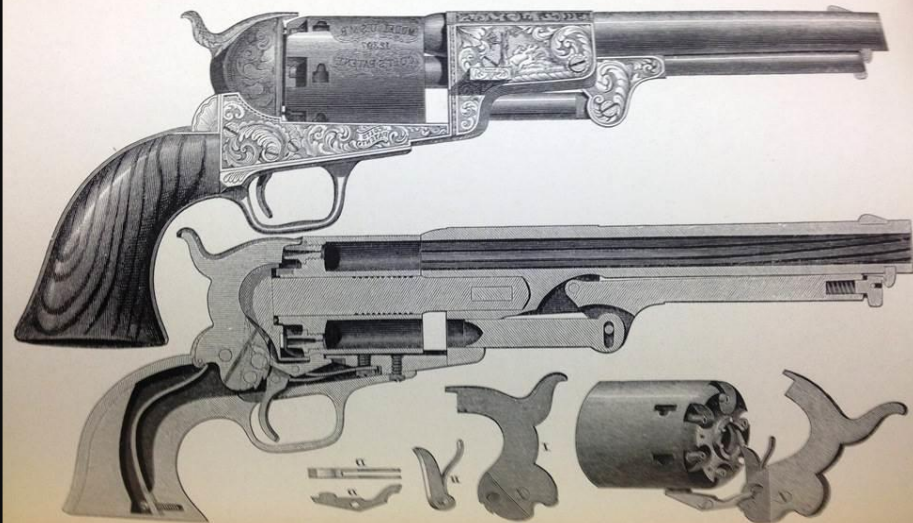
1814-1862

Colt Patterson



Patented by Samuel Colt on February 25, 1836

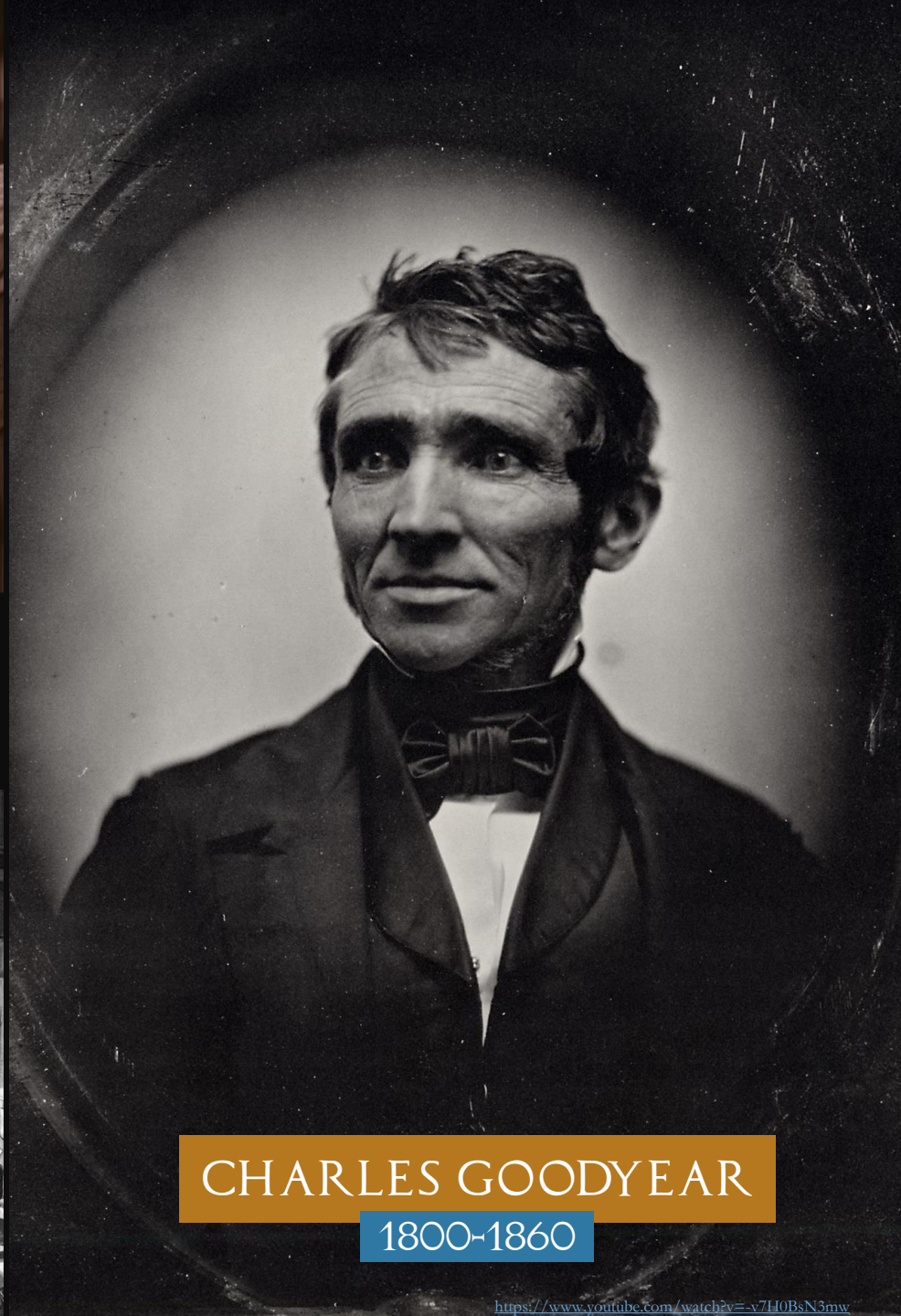
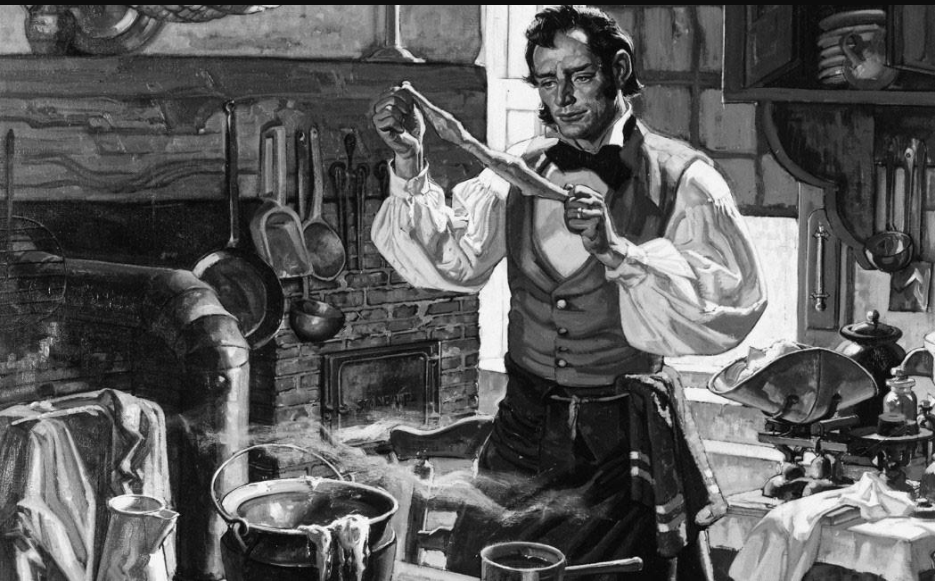
# REVOLVER (1835)







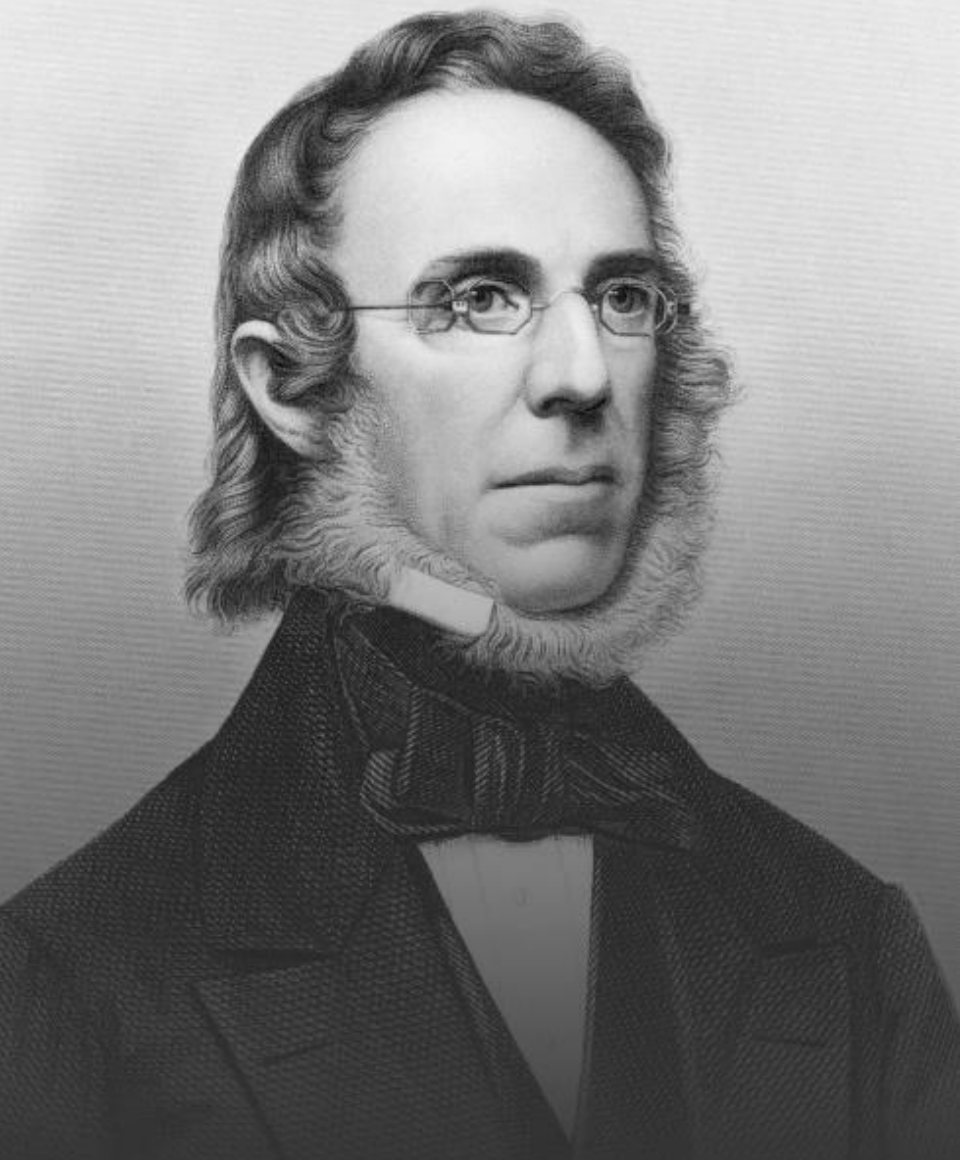
## VULCANIZED RUBBER (1839)



CHARLES GOODYEAR

1800-1860





PETER COOPER

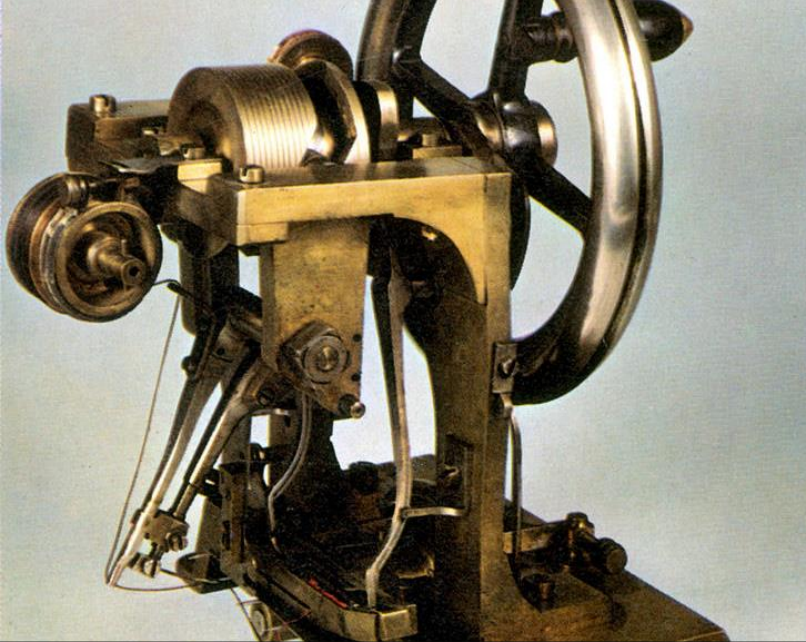
1791-1883



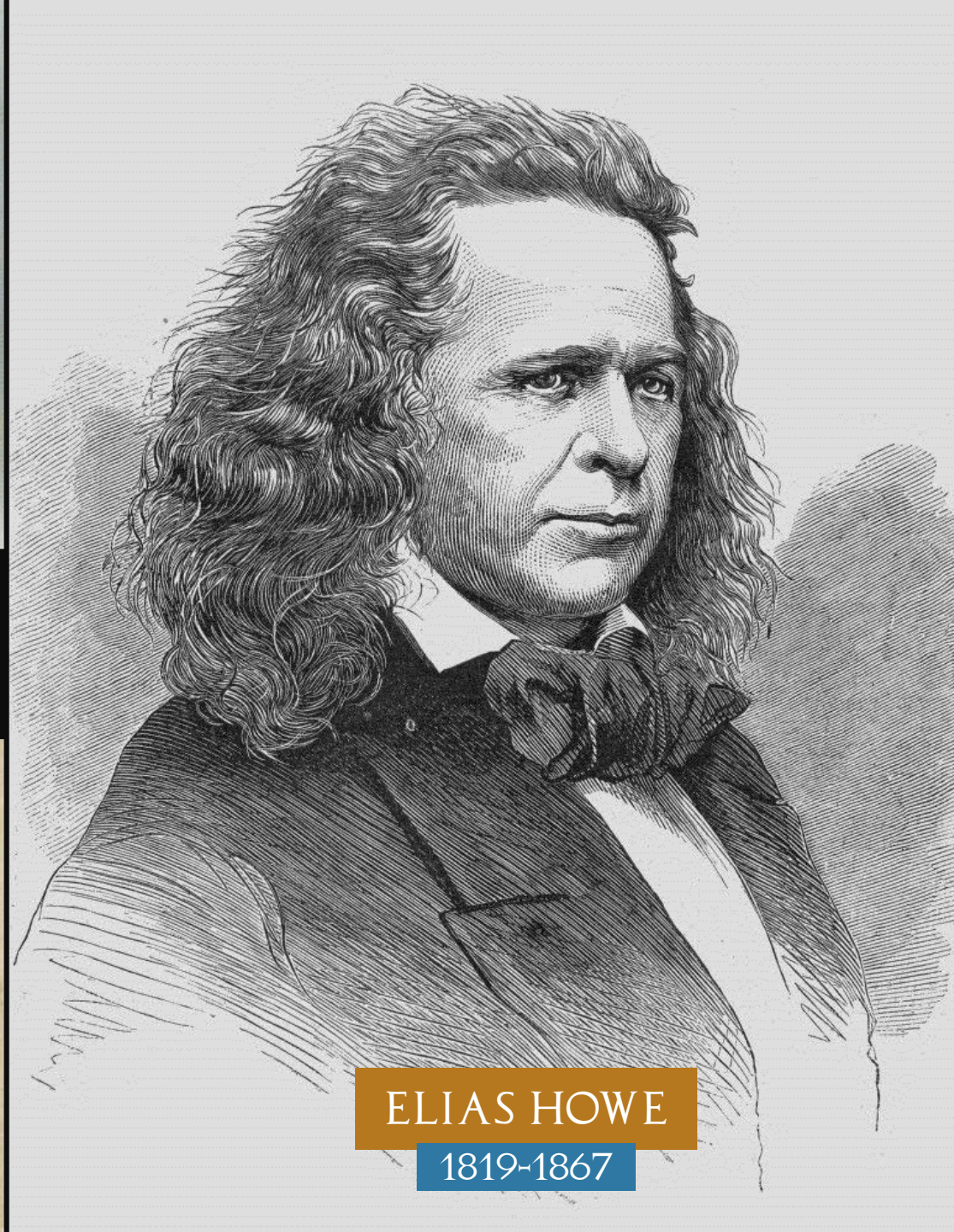
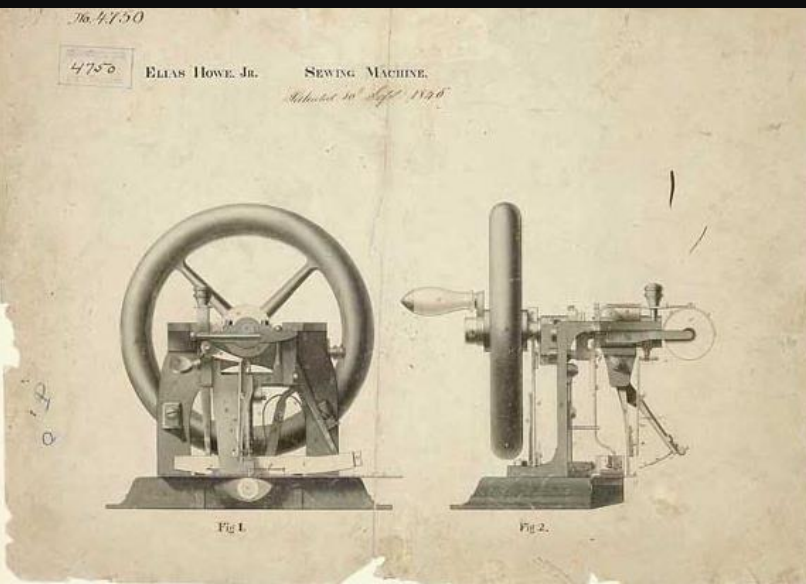
# LOCOMOTIVE (1830)







# SEWING MACHINE (1846)



ELIAS HOWE

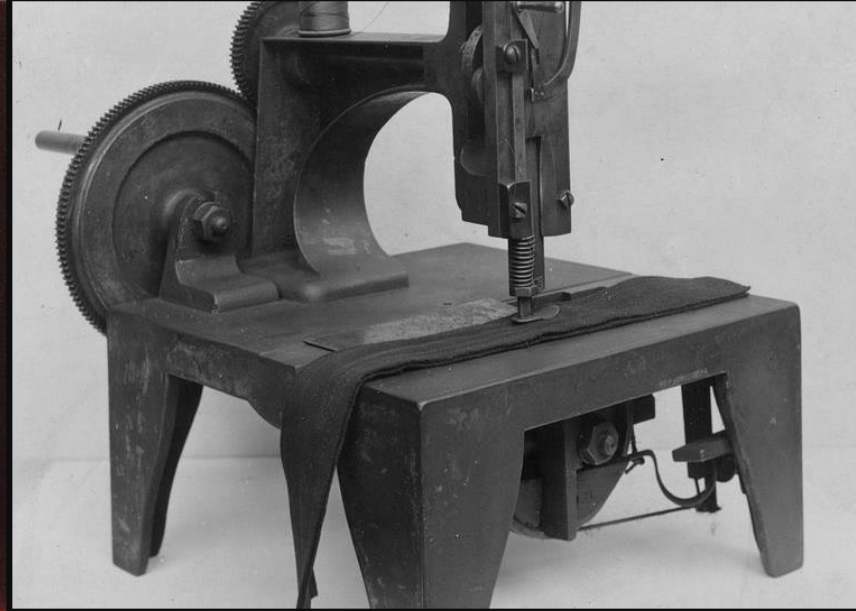
1819-1867





ISAAC SINGER

1811-1875

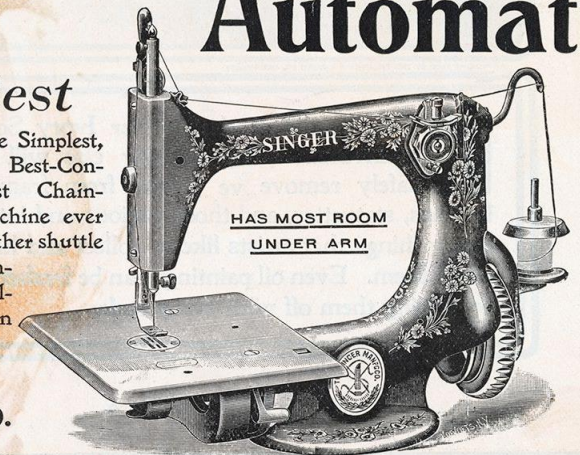


## SEWING MACHINE (1851)

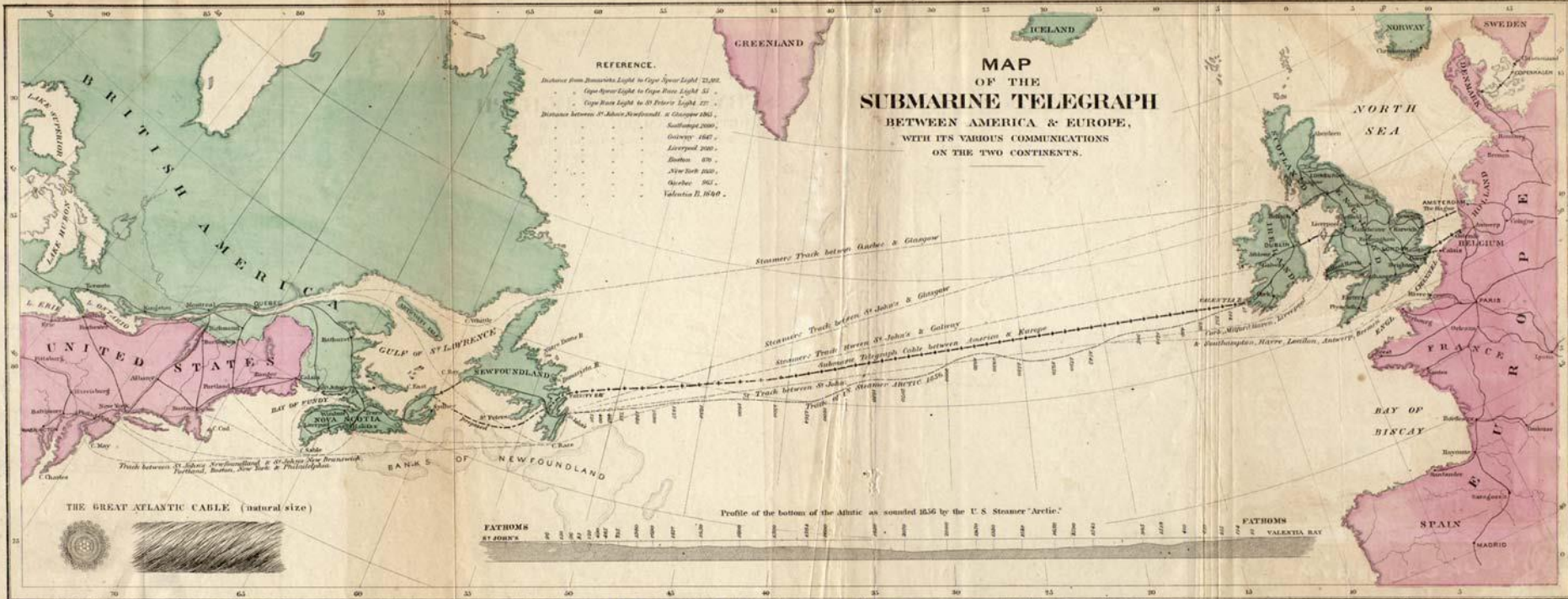
### The Singer Latest and Best Automatic

Absolutely the Simplest, Lightest-Running, Best-Constructed, Strongest Chain-Stitch Sewing Machine ever invented. Has neither shuttle nor bobbin. No tensions to adjust. Always ready when needle is threaded.

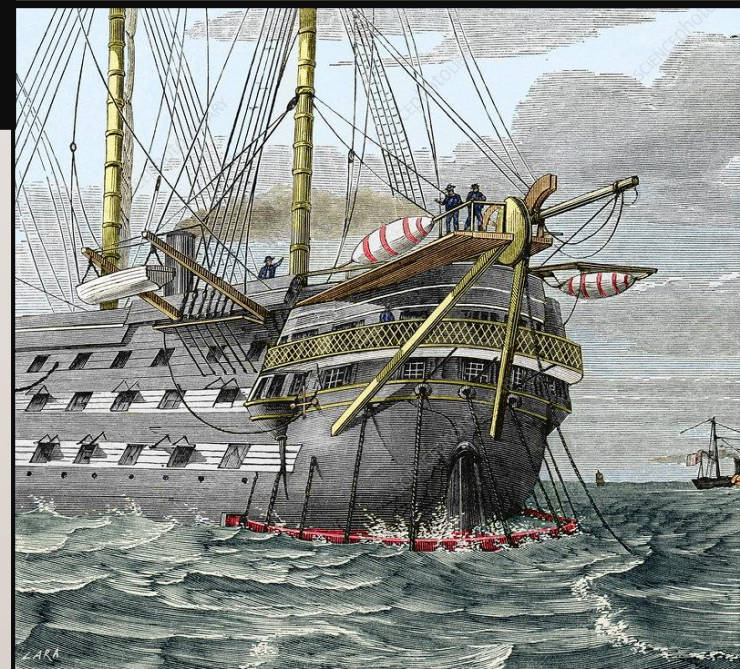
SOLD ONLY BY  
**THE SINGER  
MANUFACTURING CO.**  
Offices in every  
city in the world.



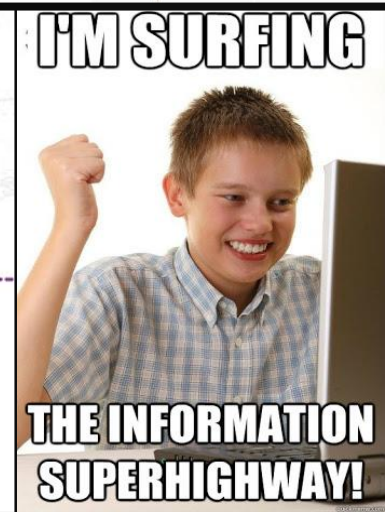
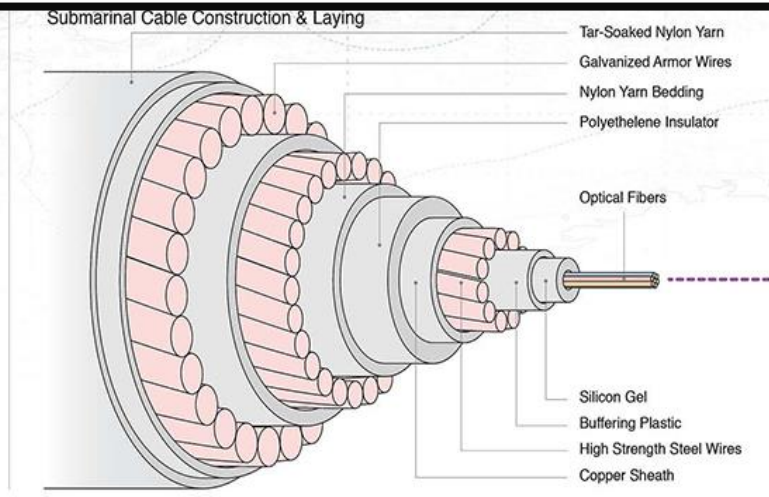
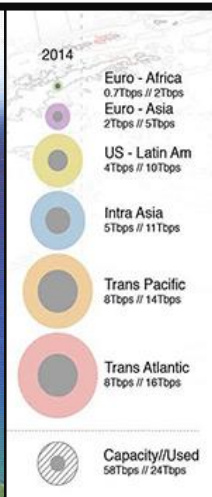
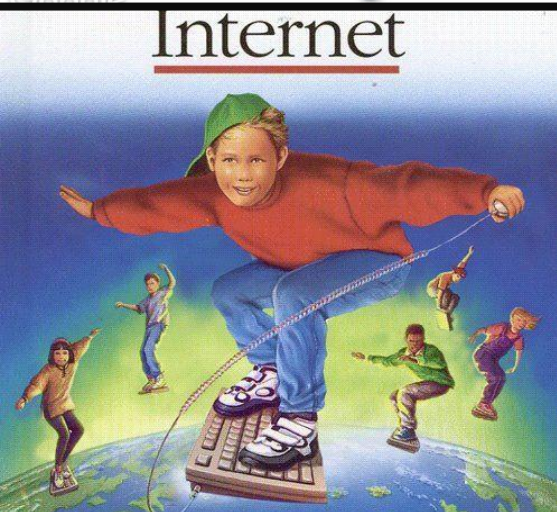
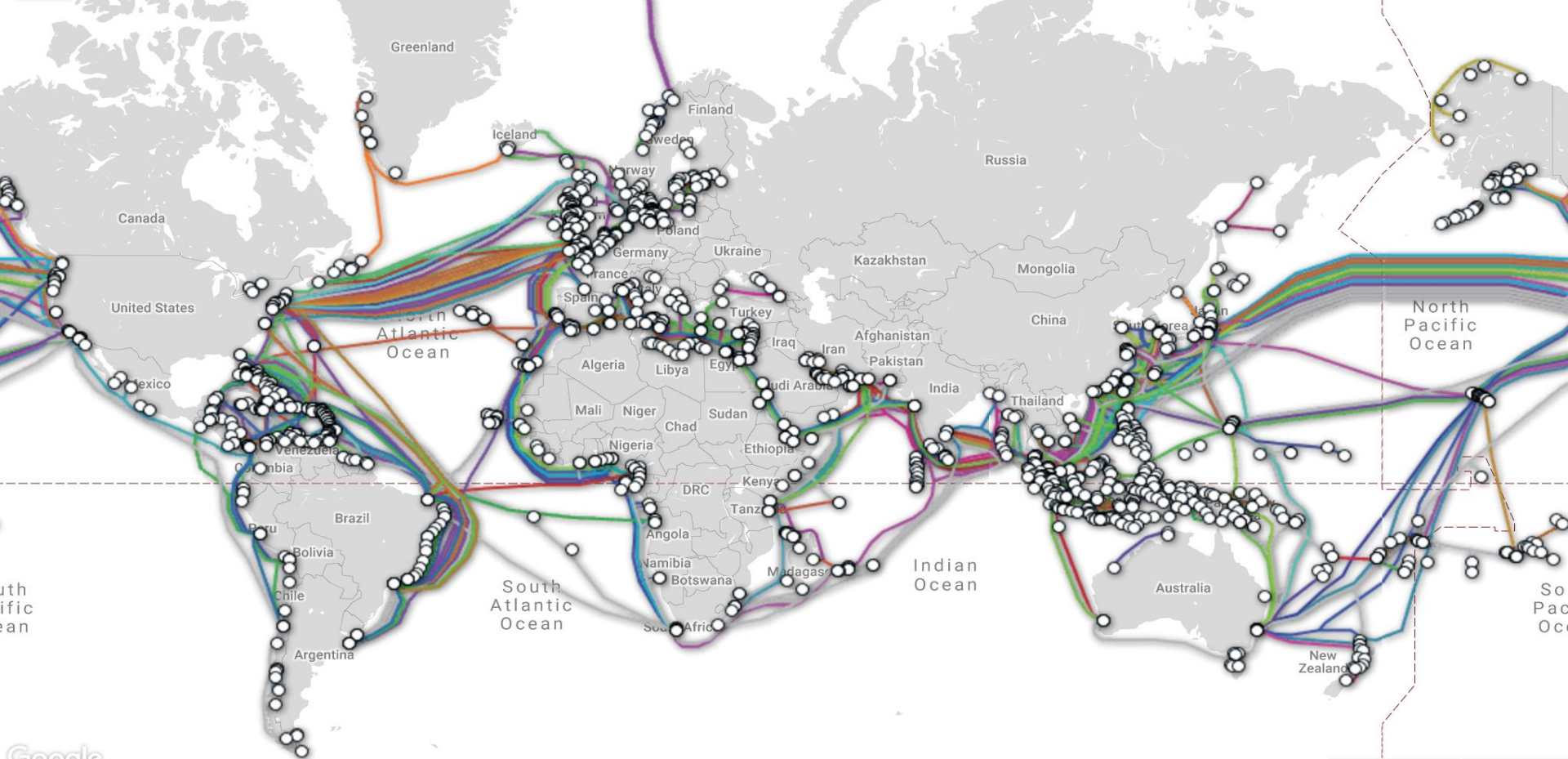




# TRANSATLANTIC CABLE (1858)











THE NORTH

VS



THE SOUTH





# THE PROGRESS OF THE CENTURY.



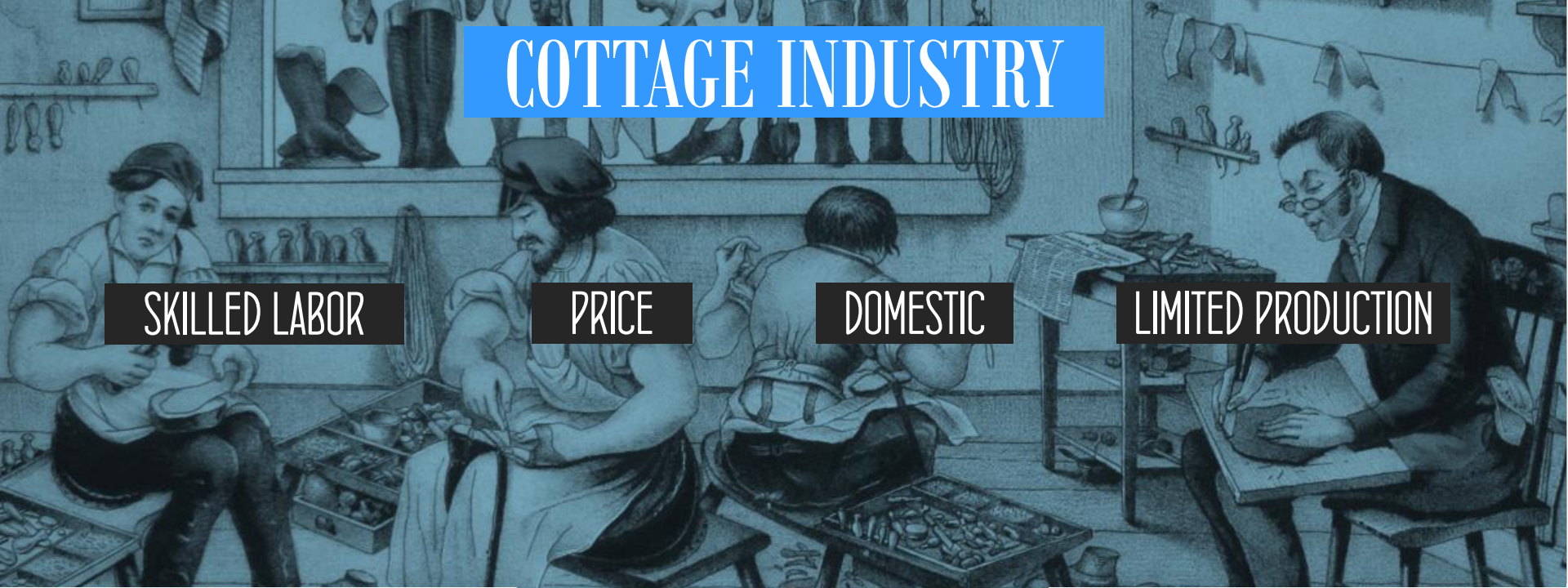
# COTTAGE INDUSTRY

SKILLED LABOR

PRICE

DOMESTIC

LIMITED PRODUCTION



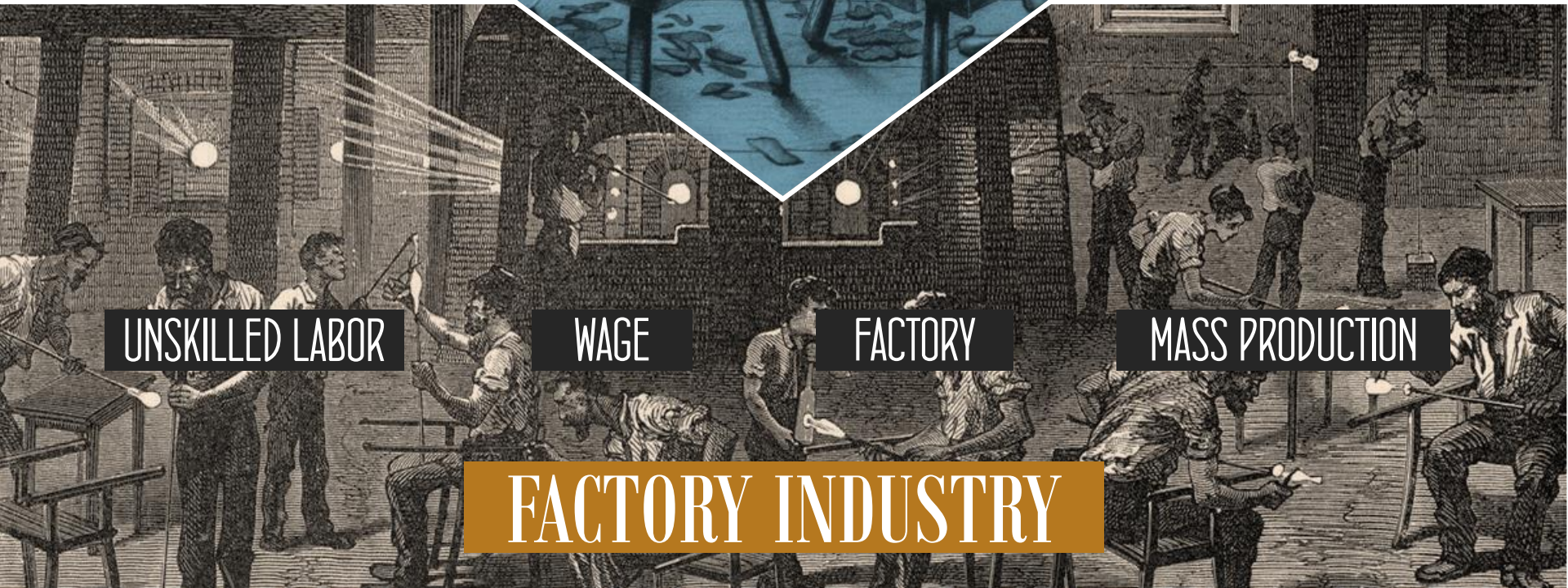
UNSKILLED LABOR

WAGE

FACTORY

MASS PRODUCTION

# FACTORY INDUSTRY

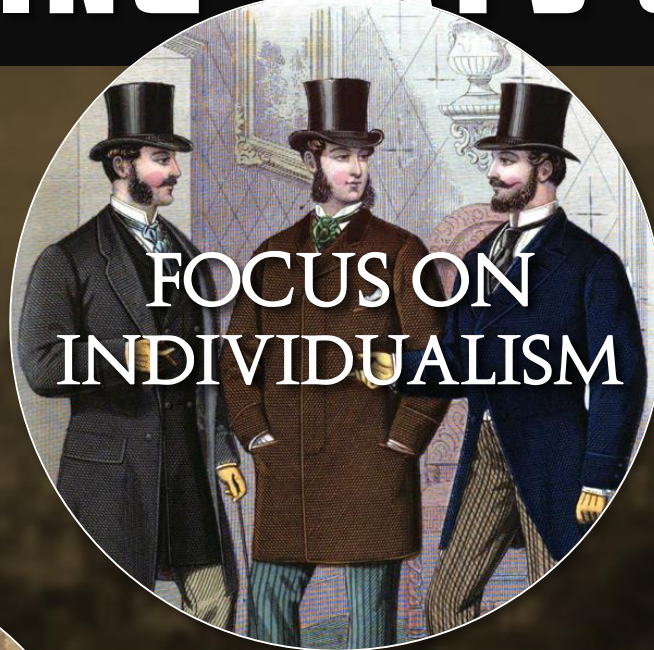




# CHANGING WAYS OF LIFE



“MARKET”  
MINDSET



FOCUS ON  
INDIVIDUALISM



LAND AS  
PROFIT



FAMILY  
LIFE SHIFTS



PRO BUSINESS  
GOV. POLICY



GOODS & SERVICES  
CHOICES



