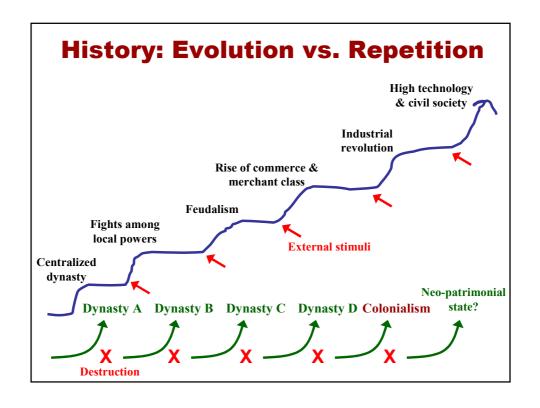
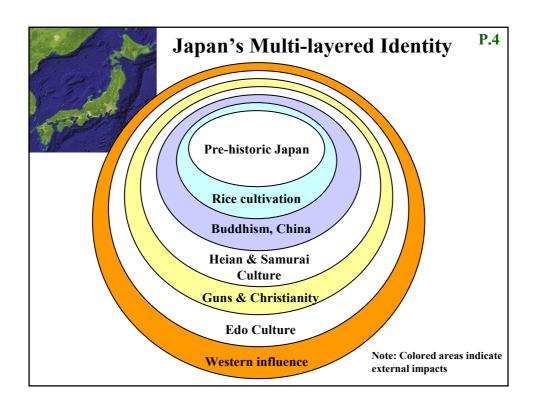


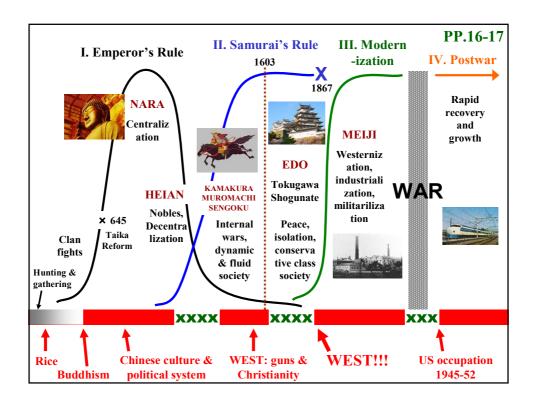


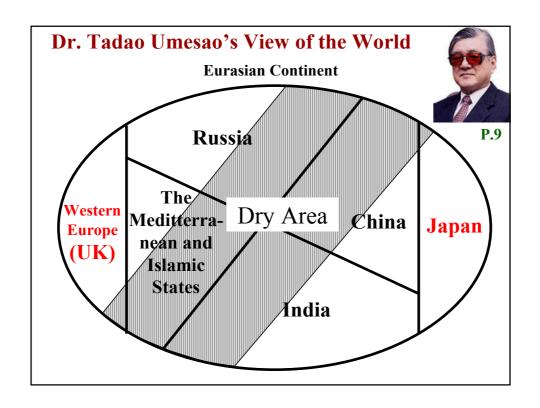
## Meiji Japan (1868-1912) A Unique Latecomer

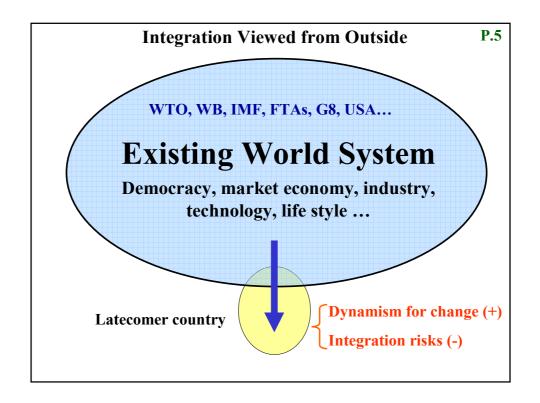
- ☐ History of peripheral society should be analyzed as interaction between internal and external forces.
- □ Japanese history was cumulative and evolutionary thanks to the right distance from civilization (China).
- ☐ When Japan began integration in the mid 19th century, it already had sufficient adaptive power.
- ☐ Japan absorbed Western technology and systems selectively and under its own initiative.
- ☐ Japan's industrialization also nurtured the *monozukuri* (manufacturing) spirit.

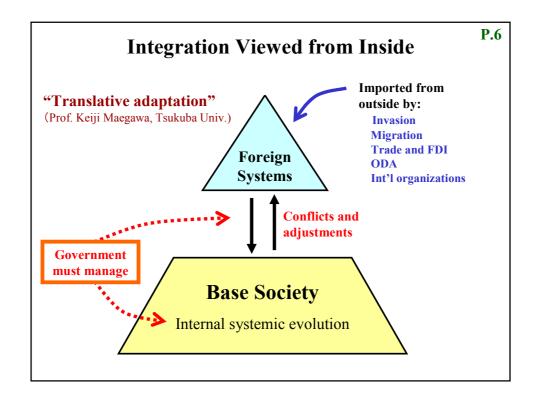


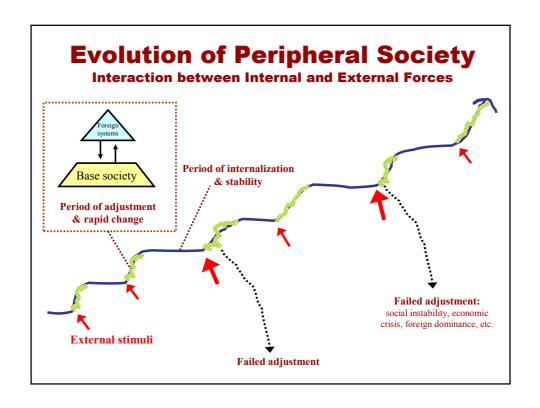


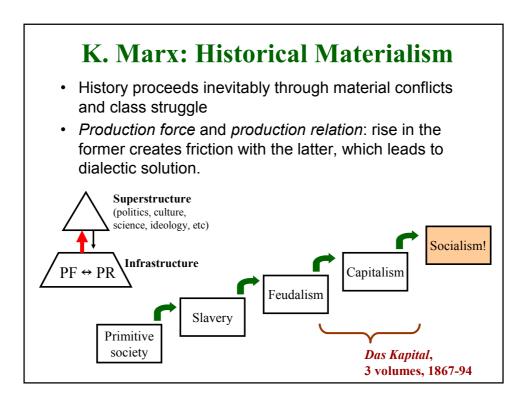


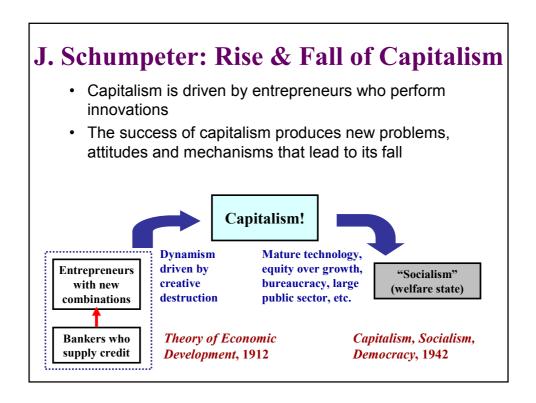


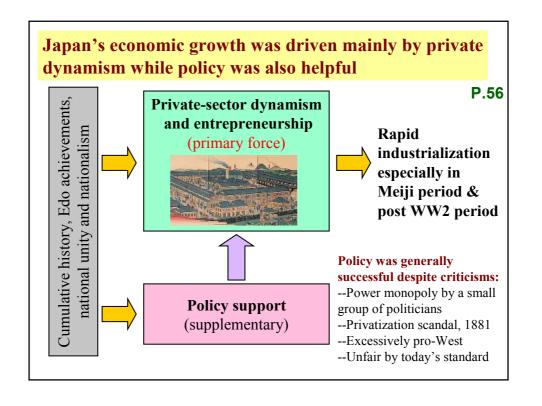












# **Edo Period (1603-1867)**

P.23

#### Pre-conditions for Industrial Take-off

- Political unity and stability
- Agricultural development
- Development of transportation and nationally unified markets
- Rise of commerce, finance and wealthy merchant class
- Rise of pre-modern manufacturing
- Industrial promotion by local governments
- High level of education



Daimyo in his castle



Samurai police and merchants



## Rich Merchants from Edo Period (Gosho)

#### Mitsui Family

- -17c From Matsuzaka
- -Kimono trade & money exchange in Edo, Kyoto, Osaka - huge success
- <Transition to Meiji>

#### Manager: Rizaemon Minomura

- -Cope with bakufu policy to protect Mitsui business -Support and work with
- new government
- -Internal reform:

from gosho to zaibatsu

-1876 Establish Mitsui Bank & Mitsui **Trading Company** 

#### **Sumitomo Family**

- -16c Adopt Western copper refining, copper trade (Kyoto)
- -17c Move to Osaka
- -Besshi Copper Mine (under Bakufu's commission)

#### <Transition to Meiji>

#### Manager: Saihei Hirose

- -Avoiding gov't confiscation
- -Introducing Western mining technology to renovate Besshi
- -Business diversification

#### Konoike

- -Sake making, trading, loans to daimyo -No serious internal reform in Meiji
- -Failed to form zaibatsu (Sanwa Bank)

## Yataro Iwasaki (1835-85) 🗼



- PP.45-46
- Seisho from Tosa, founder of Mitsubishi Zaibatsu
- Shipping company--grew fast with government support (receiving gov't ships, contract for military transport)
- Established Nippon Yusen (NYK Line), fierce battle with Kyodo Unyu (anti-Mitsubushi company), 1883-85
- Expanded to many areas: trade, banking, shipbuilding, coal, mining (later, more)

Mechanical factory in Nagasaki, ca 1885

Bakufu's Steel Mill in Nagasaki, transferred to Mitsubishi in 1884







**←Eiichi Shibusawa** (1840-1935)

From Saitama

Tomoatsu Godai (1836-1885)



From Satsuma

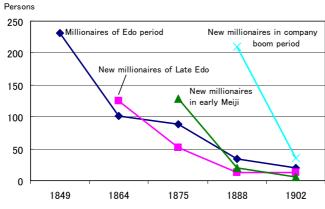
Super business promoters -- but they did not form zaibatsu

- -First, anti-bakufu fighter
- -Next, assistant to last shogun
- -Works vigorously for MOF (invited by Meiji Government)
- -Governor of First "National" Bank"
- -Company builder and business coordinator, helping to create 500 new companies
- -Social contributions
- -Studies and builds human network in Nagasaki -Visits UK; realizes need to industrialize, writes report -In Osaka, helps to create copper co., railroad, shipping co., rice & stock exchanges, cham. of commerce, university, test centers, trading center, etc -SOE privatization scandal

# Rise and Fall of Merchants and Enterprises

**Q:** Who were the main drivers of Meiji industrialization?

**A:** All types of entrepreneurs including Edo gosho, Yokohama merchants, Meiji zaibatsu, and company boom millionaires.



Source: Computed from Miyamoto (1999), p.53. Each line shows how many of the new millionaires emerging each period survived in later periods.

- Survival game was severe: many entries, many exits
- ► Japan's industrial revolution: from 1880s to 1900s
- ► Japan-China War, Japan-Russia War also accelerated industrialization

## **Toshimichi Okubo** (1830-1878) High Official Implementing Industrial Policy

- Participated in Iwakura Mission (1871-73)
  to observe Western technology & systems
- Top-down promoter of technology import and industrialization
- Minister of Finance; Minister of Internal Affairs
- Policy measures:
  - --Supporting businesses (Iwasaki, Godai) to promote industries and import substitution (shipping, etc)
  - --Establishment of SOEs and research centers
  - -- Domestic industry exhibitions
  - --Set up bureaucracy, police and local governments
  - --Suppress Saigo Rebellion, send troops to Taiwan

PP.44-45

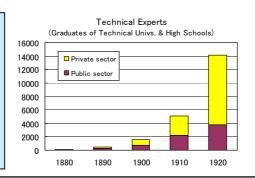


### **Technology Transfer**

PP.62-65

- 1. Foreign advisors (public and private sector)—salary too high
- 2. Engineering education (studying abroad, Institute of Technology; technical high schools)
- 3. Copy production, reverse engineering, technical cooperation agreements (esp. automobiles, electrical machinery); *sogo shosha* (trading companies) often intermediated such cooperation

Private-sector experts, 1910	
Mining	513 (18.0%)
Textile	300 (10.6%)
Shipbuilding	250 (8.8%)
Power & gas	231 (8.1%)
Trading	186 (6.5%)
Railroad	149 (5.2%)
Food	149 (5.2%)
TOTAL	2,843 (100%)



P.64

## **Studying Abroad (Early Engineers)**

- First students: bakufu sent 7 students to Netherlands in 1862 (naval training)
- By 1880s, 80 Japanese studied engineering abroad (shipbuilding, mechanical, civil engineering, mining & metallurgy, military, chemistry)
- Destination: UK (28), US (20), France (14), Germany (9), Netherlands (8)
- They received top-class education and could easily replace foreigners after coming back
- They mostly worked in government (no private industries existed at first)—Ministry of Interior, MOF, Army, Navy, Ministry of Industry



# Kobu Daigakko (Institute of Technology)

P.64

- 1871 *Koburyo* of Ministry of Industry; 1877 Renamed to *Kobu Daigakko*; 1886 Merged with Tokyo Imperial University (under Ministry of Education)
- First Principal: Prof. Henry Dyer (UK)
- Theory and practice--preparatory course (2 years), specialized studies (2 years), internship (2 years)
- 8 courses: civil engineering, mechanical engineering, shipbuilding, telecommunication, chemistry, architecture, metallurgy, mining (classes in English)
- Educating top-class engineers (import substitution)

## PP.65, 179-181

# Monozukuri (Manufacturing) Spirit

- *Mono* means "thing" and *zukuri* (*tsukuri*) means "making" in indigenous Japanese language.
- It describes sincere attitude toward production with pride, skill and dedication. It is a *way* of pursuing innovation and perfection, disregarding short-term profit.
- Many of Japan's excellent manufacturing firms were founded by engineers full of monozukuri spirit.



Sakichi Toyota 1867-1930



Konosuke Matsushita 1894-1989



Soichiro Honda 1906-1991



Akio Morita (Sony's co-founder) 1921-1999



# How about Vietnam?



- □ Vietnam's history has been more disruptive with wars and foreign invasion (too close to China?)
- No super business leaders or large business groups.
- Economic policies are not very good.
- Worker quality is *potentially* good.
- → Vietnam's development must rely heavily on FDI and ODA (risk of losing one's identity and control)
- → Possibility of learning *monozukuri* spirit and becoming Japan's manufacturing partner?