

Topics

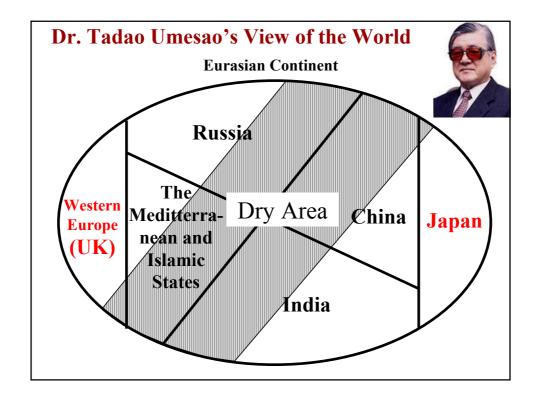
- Overview—Japanese history as cumulative evolution
- **Meiji Revolution** (late 19th century)— unique transition from feudal class society to modernization
 - -- Private dynamism
 - --Effective policies
 - --Industrial human resource

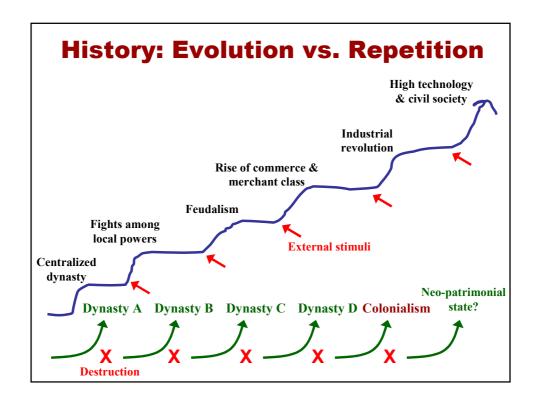


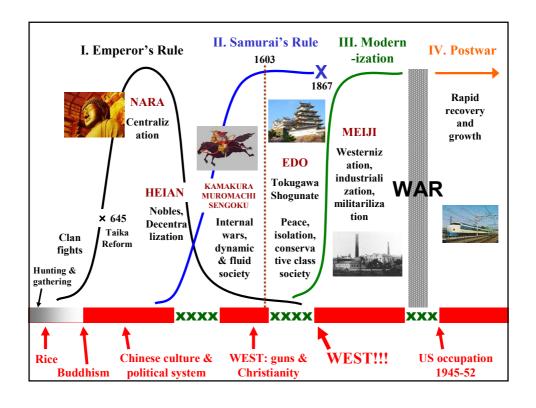
Japanese History as Cumulative Evolution

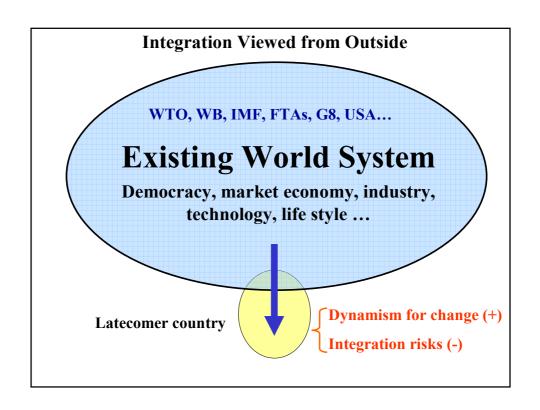
--A Very Unique Latecomer

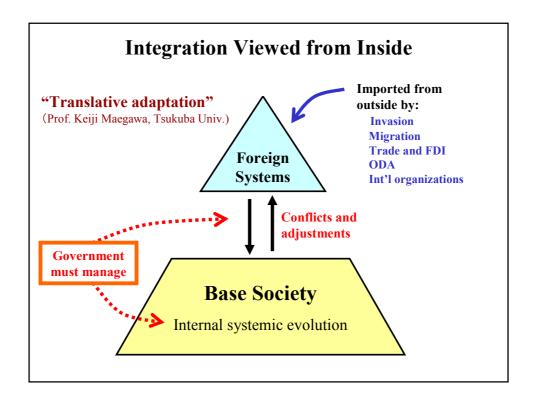
- ☐ History of peripheral society should be analyzed as interaction between internal and external forces.
- □ Japan absorbed Western technology and systems selectively and under its own initiative.
- ☐ Japanese society changed greatly but did not lose its own identity.
- □ Umesao Theory—Japanese history was cumulative and evolutionary thanks to the right distance from dominant civilization (i.e., China).

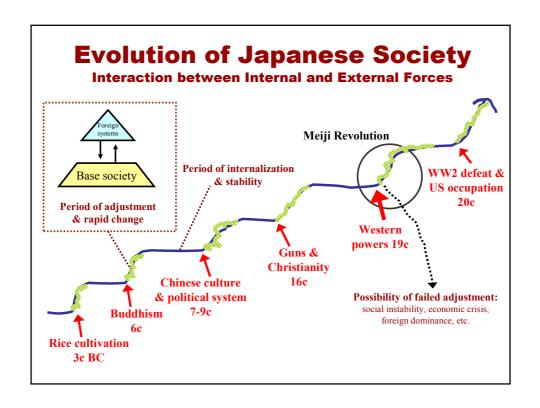


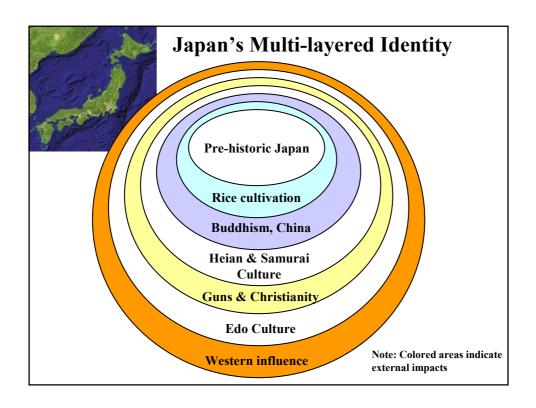




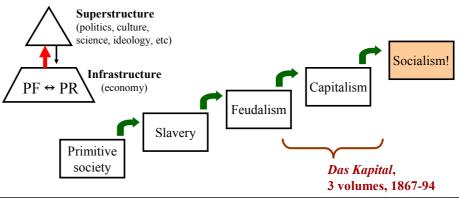






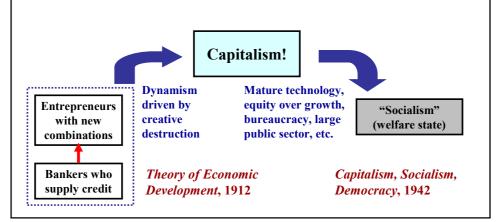


K. Marx: Historical Materialism History proceeds inevitably through material conflicts and class struggle Production force and production relation: rise in the former creates friction with the latter, which leads to dialectic solution.





- Capitalism is driven by entrepreneurs who perform innovations
- The success of capitalism produces new problems, attitudes and mechanisms that lead to its downfall





Soseki Natsume's Lecture "Development of Modern Japan" (1911)

"Development in the West is endogenous, while Japan's development is exogenous."

"Western societies are evolving naturally but Japan after the Meiji Restoration and foreign contact is quite different... after two centuries of isolation, we opened up and encountered Western civilization. It was a big shock we never experienced before."

"Western tides dominate our development. Since we are not Westerners, every time a new wave arrives from the West we feel uneasy like a person living in someone else's house."

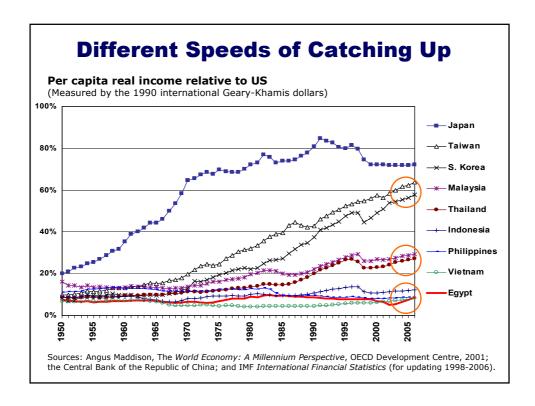
[However, compared with other countries, Japan achieved Westernization more successfully without losing identity.]



How about Egypt?



- Egypt has a very long history but it suffered repeatedly from invasion and colonialism. Cumulative evolution did not occur.
- By the standards of East Asia, private dynamism is weak and industrial policies are not very effective.
- □ Dependency on aid and locational resources (tourism, oil and gas, Suez Canal).
- ☐ Internal value creation based on skill and knowledge remains relatively low—*Middle Income Trap*?





Meiji Revolution

From Feudalism to Westernization, Modernization, and Industrialization

- When Japan began integration in the mid 19th century, it already had sufficient adaptive power.
- ☐ Meiji Revolution was achieved by former samurais through continuous policy competition, not top-down decision making.
- ☐ Strong private dynamism was supplemented by appropriate government policies.
- ☐ Meiji society produced many dynamic political and business leaders.

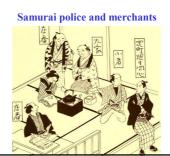
Edo Period (1603-1867)

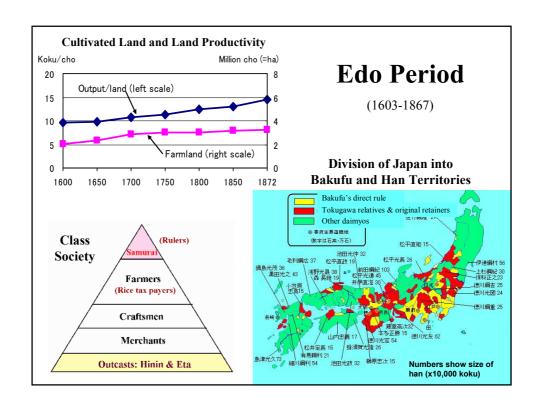
Pre-conditions for Industrial Take-off

- 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









Meiji Revolution

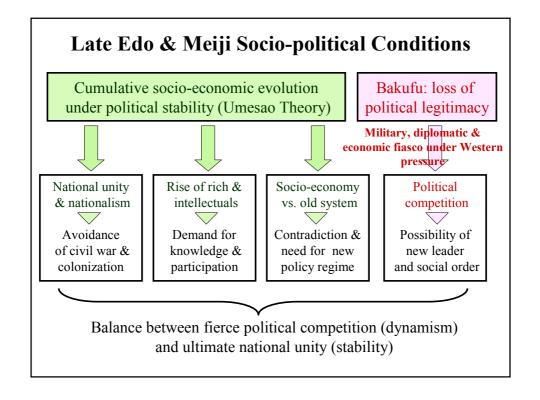




- 17c- Edo Period (feudalism, class society, international isolation)
- 1853 Forced opening by US Navy (Perry's Black Ships)
- 1858 Signing of commercial treaties with West
- 1858-1881 Transition period
 - --Han samurais topple Edo Bakufu (1868)
 - --Feudal system removed, strong central gov't installed (1871)
 - --Political fight continues over policy priority—political reform (constitution & parliament), industrialization, military expansion

1881-1890s Implementation period

- --Industrial Revolution (private companies emerge strongly, cotton industry achieves import substitution)
- -- Constitution and parliament established (1889-90)
- --Victory over China (Japan-China War 1894-95)



Meiji Revolution Leaders

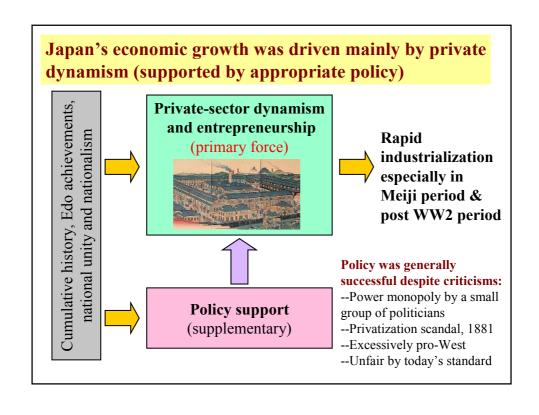
In the field of politics and policy making, in order of birth year

HS
HS
HL
HL
BS
BS
N
HL
HS
HS
HL
HS

Eto Shimpei	HS
Inoue Kaoru	HS
Fukuoka Takachika	HS
Matsukata Masayoshi	HS
Sakamoto Ryoma	HS
Komatsu Tatewaki	HS
Godai Tomoatsu	HS
Itagaki Taisuke	HS
Sanjo Sanetomi	N
Okuma Shigenobu	HS
Yamagata Aritomo	HS
Goto Shojiro	HS
Komuro Shinobu	М
Kuroda Kiyotaka	HS
Ito Hirobumi	HS
Mutsu Munemitsu	HS

Yano Fumio HS Katsuda Magoya HS
Katsuda Magoya HS
HL Han lord (4)
HS Han samurai (26)
BS Bakufu samurai (
Noble man (2)
M Merchant (1)

Note: Bakufu is the central military government in Edo period. Han is the local political unit in Edo feudalism.



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

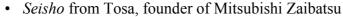
- -Avoiding gov't confiscation
- -Introducing Western mining
- technology to renovate Besshi -Business diversification

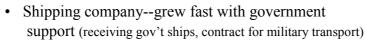
Konoike Family

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

Yataro Iwasaki (1835-85) 🙏 Mitsubishi







- Established Nippon Yusen (NYK Line), fierce battle with Kyodo Unyu (anti-Mitsubushi company), 1883-85
- Expanded business into many areas: trade, banking, mining, coal, shipbuilding (later, more)





Mechanical factory in Nagasaki, ca 1885





←Eiichi Shibusawa (1840-1935)

From Saitama

Tomoatsu Godai (1836-1885)



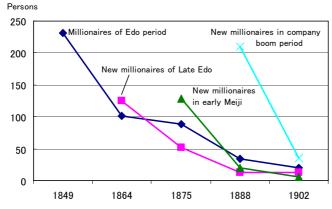
From Satsuma

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



Iwakura Mission (Dec.1871-Sep.1873)

- -- Hastily organized after abolishing feudal system
- --Half the cabinet Iwakura (leader), Okubo, Ito, Kido, Yamaguchi, and other officials (46); attendants (12), students (49); total 107 members
 - Purpose 1: Start renegotiating unequal treaties (failed)
 - Purpose 2: Inspect Western systems and technology

<Lessons>

- (1) Strong state role is crucial for industrialization (Okubo)
- (2) Western style constitution is necessary (Kido)

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

- Participated in Iwakura Mission (1871-73) to observe Western technology & systems
- Became 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 (marine transport, mining, shipbuilding, etc)
 - --Establishment of SOEs and research centers
 - -- Domestic industry exhibitions
 - --Establish modern state bureaucracy, police and local governments



Okubo's Back-to-Office Report after Iwakura Mission, 1874

"The strength of a country depends on the prosperity of its people which, in turn, is based on the level of output. To increase output, industrialization is essential. However, no country has ever initiated the process of industrialization without official guidance and promotion."

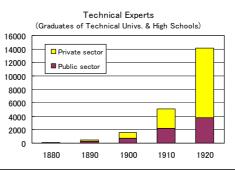
Okubo's Statement c.1875

"In overcoming low output and trade deficits, the government must introduce policy measures to establish economic foundations, stimulate private businesses, and promote trade. If this state role is denied, it will take too much time for the general public to expand business and the nation will fall into stagnation. This is the most important policy in our current circumstance, even if it is against the orthodox theory of political economy."

Technology Transfer

- 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





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)
- Study 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)

- 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)

Monozukuri (Manufacturing) Spirit

- *Monozukuri* means "making things" in indigenous Japanese.
- 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

- Japan's monozukuri tradition shapes both business attitude and policy orientation (Edo, Meiji, now).
- Long-term relationship and skill & knowledge building within individual companies and among production partners (e.g. assemblers-suppliers).
- Strong demand for 5S, QCD (quality-cost-delivery), *kaizen*, just-in-time system, quality control, and other efforts for constant improvement.





Summary of Meiji Lessons

- Development is a **political process** as well as an economic process. The appropriateness of politics is a key factor for successful development.
- Human factor—dynamic leaders in government and business are crucial; adopting laws and institutions are not enough (a new imported car with no driver).
- Strong and effective state initiative is needed for latecomer industrialization—whether 19th, 20th, or 21th century. Washington consensus policies (liberalization, privatization, integration, etc) can take a country only up to lower middle income.

