OLD CHINA
MA, "SENICULTURE" (2004)
BACKEROUND
JAPAN VJ. CHINA
EARLY 19TH C. JAPAN : NO CONTACT WITH
WEST OF WORLDENG TRADE TECHNOLOGY TRANSFER.)
TOTALITARIAN GOVT. (TOKNGAWA SHOGUNATE)
1853: AMERICAN ADMINAL PERNY "BLACK 5HIPS"
"MEIJI REFORM":
ADOPT MANY ENRO/AMERICAN INSTRS.
(P.G. COMMERCIAL LAW, PARLIAMENT, NUBICITY)
GOVT. CREATES UNIVERSITIES, RESEARCH
INSTITUTES, RAILROADS
BY 1900, MODERN INDUSTRY, RISING YIL
AGRICULTURAL TECHNOLOGT: CREATION & DIFFNSION
IN LATE 19TH C. U.S. & EMNOPE,
LARFELY BY GOVT - FUNDED INSTNS
UNLIKE MFG., TRADE
-SMALL FIRMS (FARMS), ANY ONE FIRM GETS -SMALL FIRMS (FARMS), ANY ONE FIRM GETS
BIG BENEFIT TO AG SELTOR
- MANY USEFUL INNOVATIONS NOT PATENTABLE

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<u>MA, SENICULTURE (cont.)</u>

AKINT RAISING COCOONS (NOT MEG) EXPORT RAW SILK TO ENHOPE, M.J. 1850: JAPAN & CHINA SIMILAR POST-1850: Y & PRODUCTIVITY (MUCH FASTER IN JAPAN NO DATA FOR Y/K²L¹⁻²

SO MEASURE WITH \$Py (\$Pk)+(I-x)(\$PL) "COST-BASED TEP"

MA SAYS THIS IS BELANSE CHINA'S INSTRY ARE WOUSE

JAPANEJE GOVT. PROVIDES "PHYSICAL & SOCIAL INFRASTRUCTURE" CHINA ALLOWS SOCIAL GROMPS HURT BY INNOVATION TO BLOCK INNOVATION (RENTSEEKING) OLD CHINA

MA, SERICULTMRE (cont.)

JAPAN SENDS EXPERTS TO GET WESTERN TECHNOLOGY, SETS UP INSTITUTES TO BEVELOD NEW TECHNOLOGY, LOTS OF PUBLICATIONS, REPORTS EXPERIMENT STATIONS

GROWTH IN DEMAND FOR COCOONS FROM NEW JAPANESE SILK-REELING FACTORIES, RAILROADS REDUCE TRANSPORT COST, NEW SALE/CONTRACT ARRANGEMENTS ELIMINATE "MIDDLEMEN" WHO BNY FROM FARMERS, SELL TO REELERS.

<u>CHINA</u> GUILDS OF MIDDLEMEN, TRADITIONAL-TECHNOLOGY REELERS & WEAVERS USE GOVE. TO BLOCK INNOVATION.

FN. 32: "MECHANIZED SILK-REELING FACTORIES_. RIOTS FROM TRADITIONAL SILK WEAVERS... ORDERED TO CLOSE BY LOCAL MAGISTRATE" OLD CHINA

GREIF & TABELLINI, "CULTURAL & INSTN'L BIENRCATION"

RECALL GREIF ON DOING BUSINESS (CONTRACTS, AGENCY PROBLEMS) THRONGH -"INFORMAL," I.E. NON-STATE, ENFORCEMENT & "MORAL OBLIGATIONS," REPUTATIONS, PUNISHMENT WITHIN GROUP, INSIDERS VS. ONTSIDERS E.G. MAGNRIBI TRADERS "CLAN."

- "FORMAL" I.E. STATE-SUPPORTED KULES THAT APPLY TO EVERYONE MORAL OBLIGATIONS TO EVERYONE "CITY"
 - CLAN SYSTEM HAS LOW FIXED COST BUT CAN'T SCALE UP
 - CITY HAS HIGH FIXED COST BUT CAN GROW, "EXPLOIT ECONOMIES OF SCALE"

SELF-REINFORCING SYSTEMS, "HYSTERESIS"

OLD CHINA

GREIF & TABELLINI (cont.)

CHINA -> ELAN ("GUANXI") ENROPE -> CITY (BUSINESS LAW, COURDS, GENERALIZED TRUST)

WAY? "INITIAL CONDITIONS" 1000 AD CHINA HAS MOVE/STRONGER KINSHIP GROUPS "DNE to POLITICAL & RELIGIONS PROCESSES" ESP. CHUISDIANITY -"GENERALIZED MOUALITY" -DISCOMRAGED "PRACHICES THAT SUSPAIN KINSHIP GROUPS" E.G. POLYGAMY, ADOPTION...

CHINESE JAATE SNEPORTS, WORKS THRONGH CLANS WHICH GIVE LOW-COST PUBLIC ORDER.