China's Agri-Food Trends

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AEM2310, May 4, 2023





A Quick Introduction: Dr. Wendong Zhang

- Grew up in a rural county in Shandong Province, China
- Attended college in Shanghai and Hong Kong
- Ph.D. in Ag Econ from Ohio State in 2015
- Worked at Iowa State for 7 years, leading the Iowa Land Value Survey 15-22
- Moved to Cornell University Dyson School of Applied Economics & Management in July 2022 (50% research 50% extension appointment)
- Research and extension interests:

Led land value/ownership surveys https://www.card.iastate.edu/farmland

Co-founded ISU China Ag Center https://www.card.iastate.edu/china

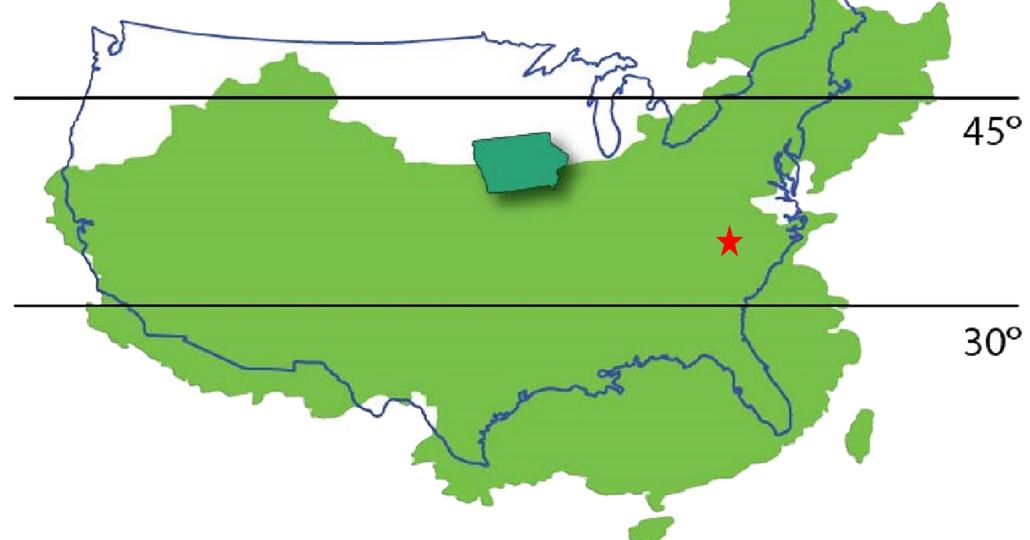
Cornell Atkinson Center for Sustainability: https://atkinson.cornell.edu/

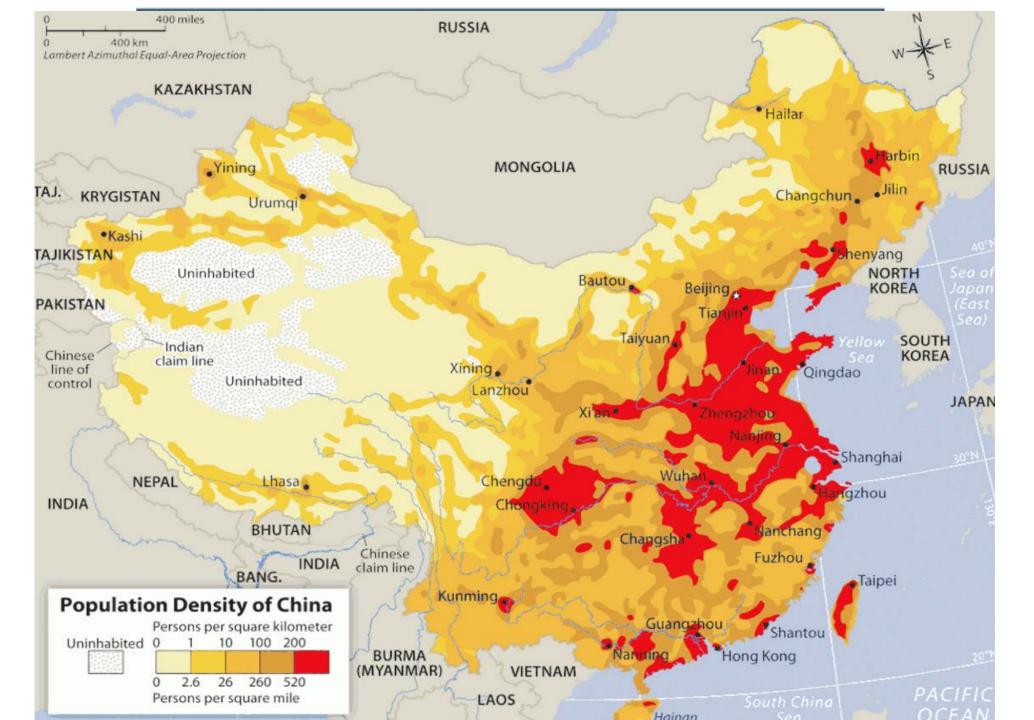
Cornell Institute for China Economic Research (CICER)

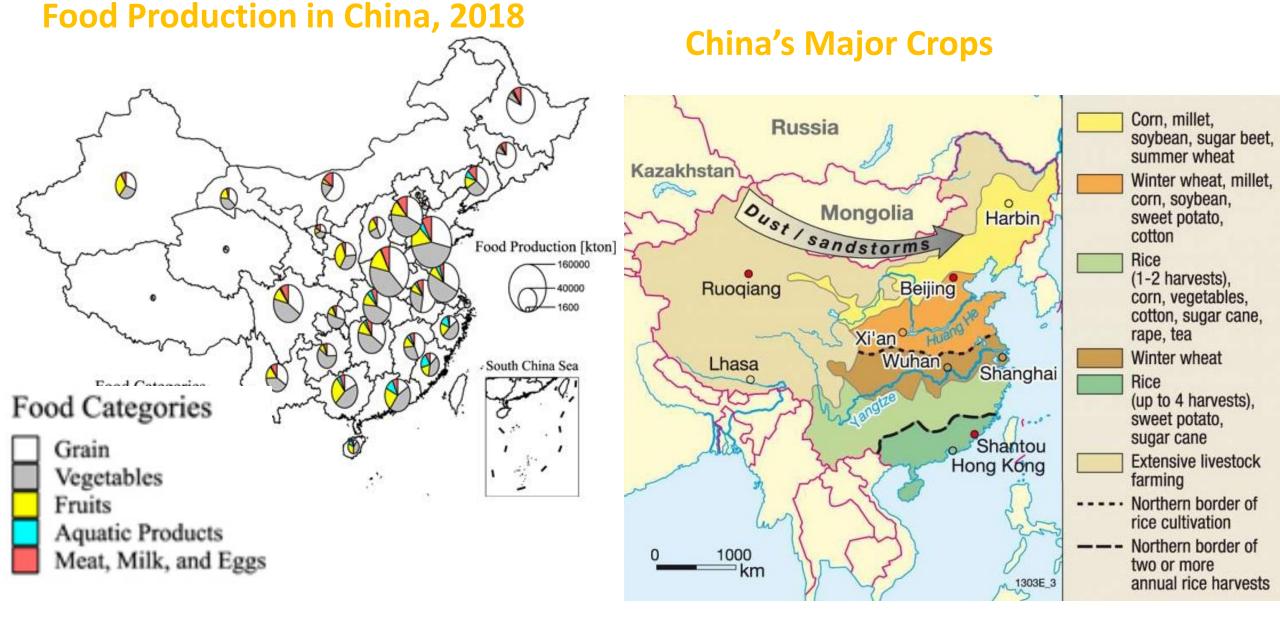
http://china.dyson.cornell.edu/

Global Public Voices Fellow, Einaudi Center for International Studies

Commodity Agriculture is Comparative Advantage for U.S., not China

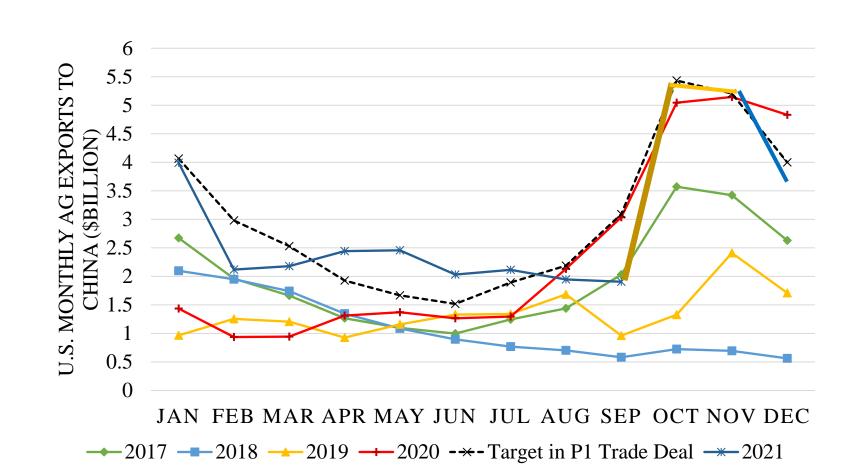






https://iopscience.iop.org/article/10.1088/2515-7620/abd622

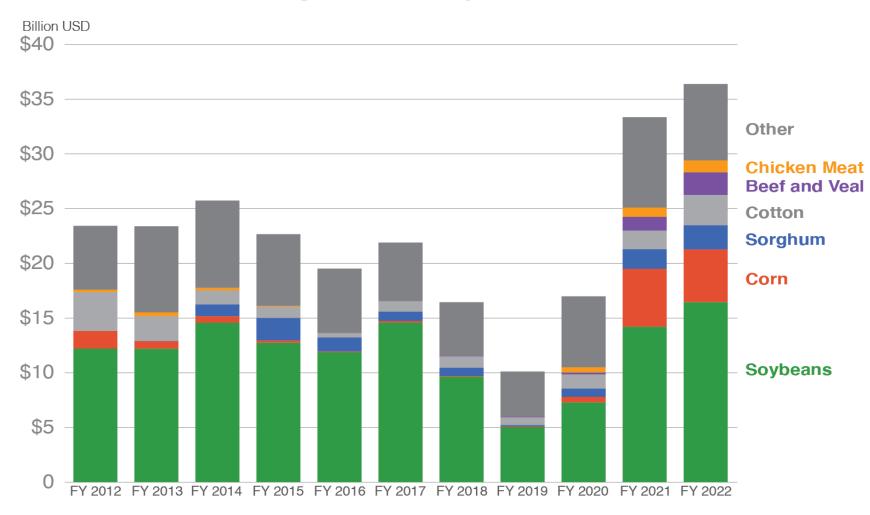
US Exports to China Are Strong, but Less So than 2021 Hog rebuilding after ASF complete; phase one deal concluded



https://www.card.iastate.edu/products/
publications/synopsis/?p=1313

Chinese imports were concentrated on feed grains

U.S. Agricultural Exports to China



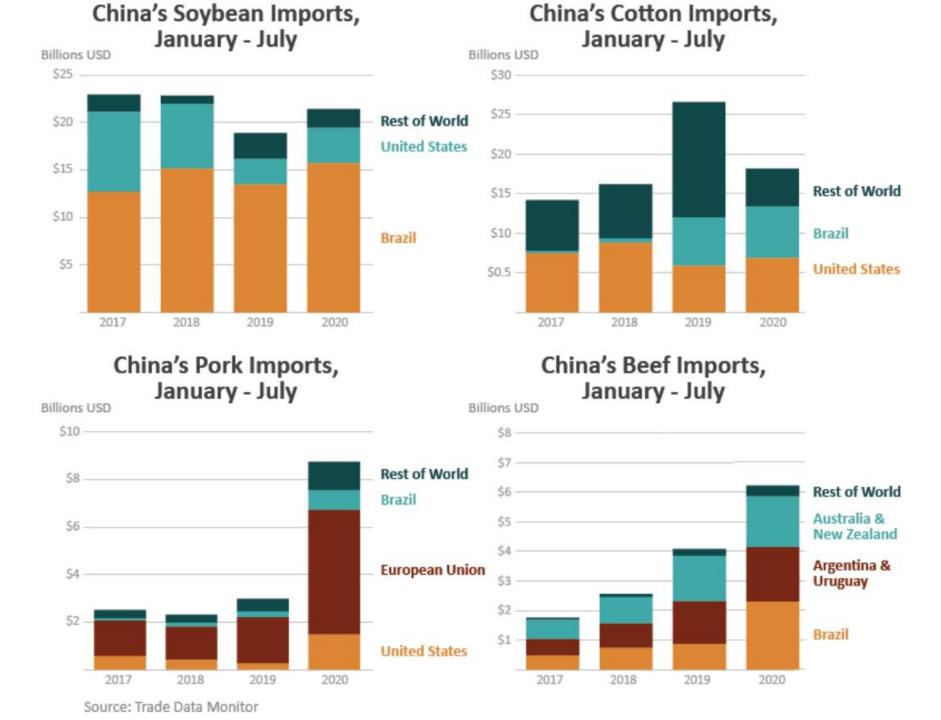


Featured Article

The Case for Healthy U.S.-China Agricultural Trade Relations Despite Deglobalization Pressures[†]

Wendong Zhang

Source: Trade Data Monitor, LLC https://www.fas.usda.gov/data/record-us-fy-2022-agricultural-exports-china

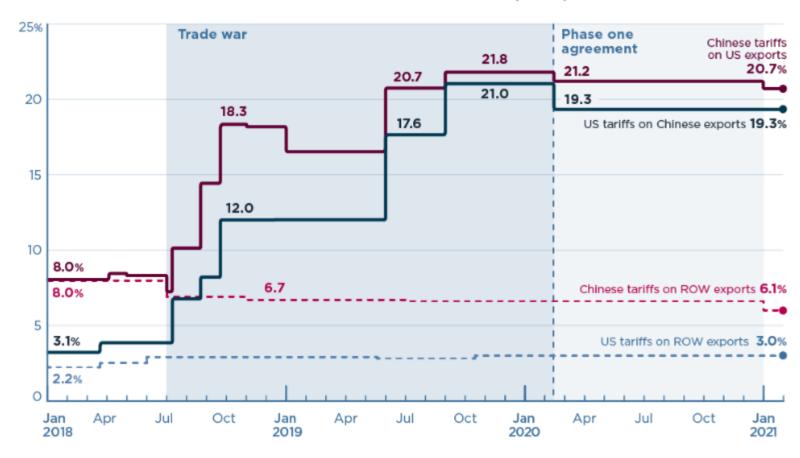


China's Strengthening Trade Ties with US Competitors

in response to US-China trade war & decoupling

PILE PETERSON INSTITUTE FOR INTERNATIONAL ECONOMICS

a. US-China tariff rates toward each other and rest of world (ROW)



Chinese tariffs on other countries dropped while the US-China trade war is still ongoing

NIKKEI **Asia**

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Markets

Politics V

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Feat

BELT AND ROAD

China-Laos high-speed railway set to roll through COVID cloud

Southeast Asian country's rising infections reduce pomp of Friday's launch















The China-Laos bullet train will compress what is normally a two-day road trek through rugged mountain terrain into a brisk three hours or so. © CCTV/Reuters

MARWAAN MACAN-MARKAR, Asia regional correspondent November 30, 2021 18:11 JST

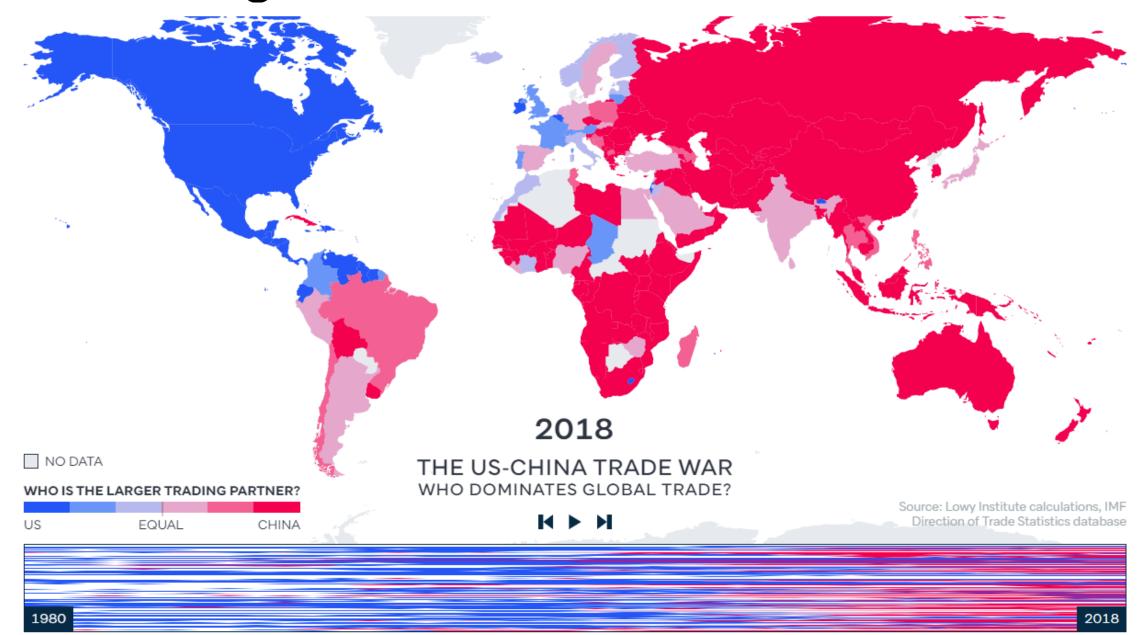
Belt and Road Initiative Still Going

the \$6 billion project in the land-locked country.

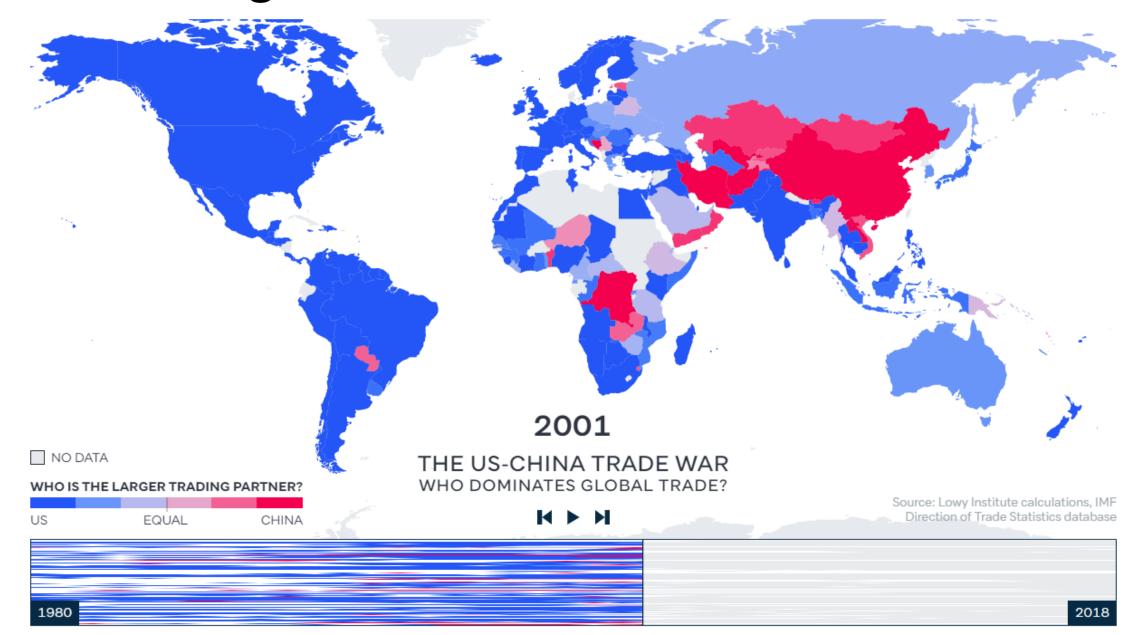


The track from Vientiane to Boten, a northern frontier town along the Laos-China border, will compress what is normally a two-day road trek through rugged mountain terrain into a brisk three hours or so. The Lane Xang, as the bullet train has been named after an ancient Laotian kingdom, will travel through 75 tunnels and across 167 bridges at a speed of up to 160 kph.

China's Significance in Global Trade



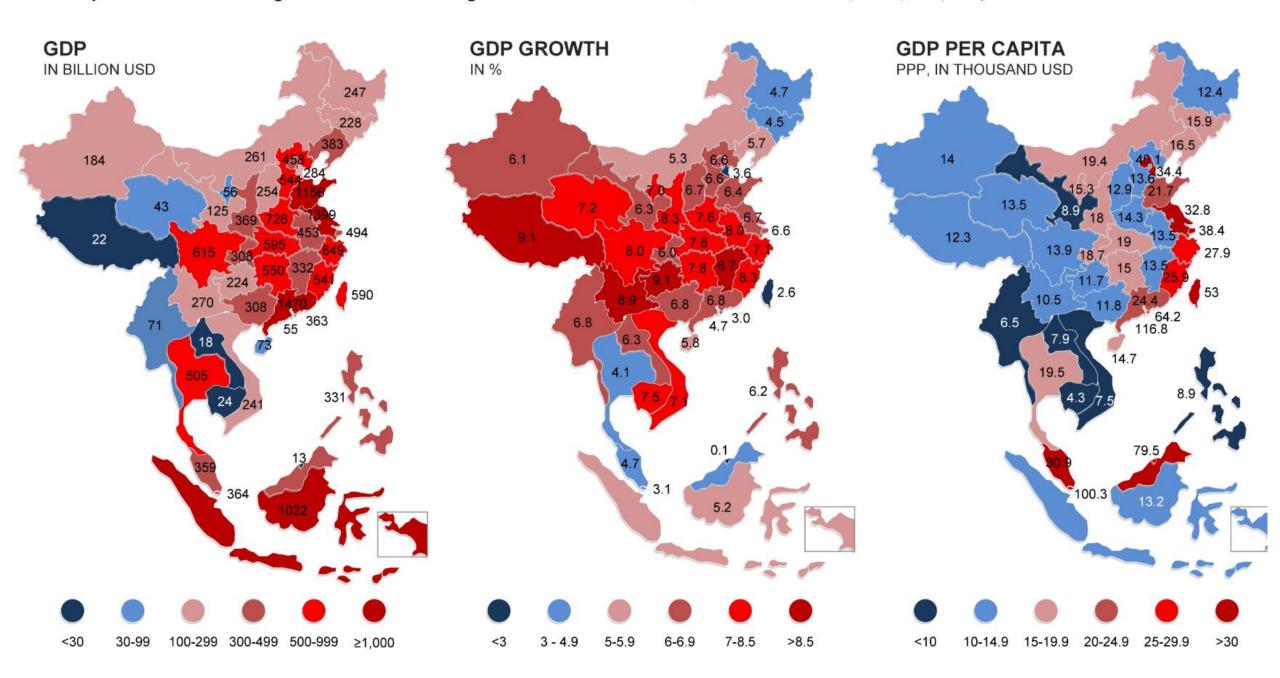
China's Significance in Global Trade



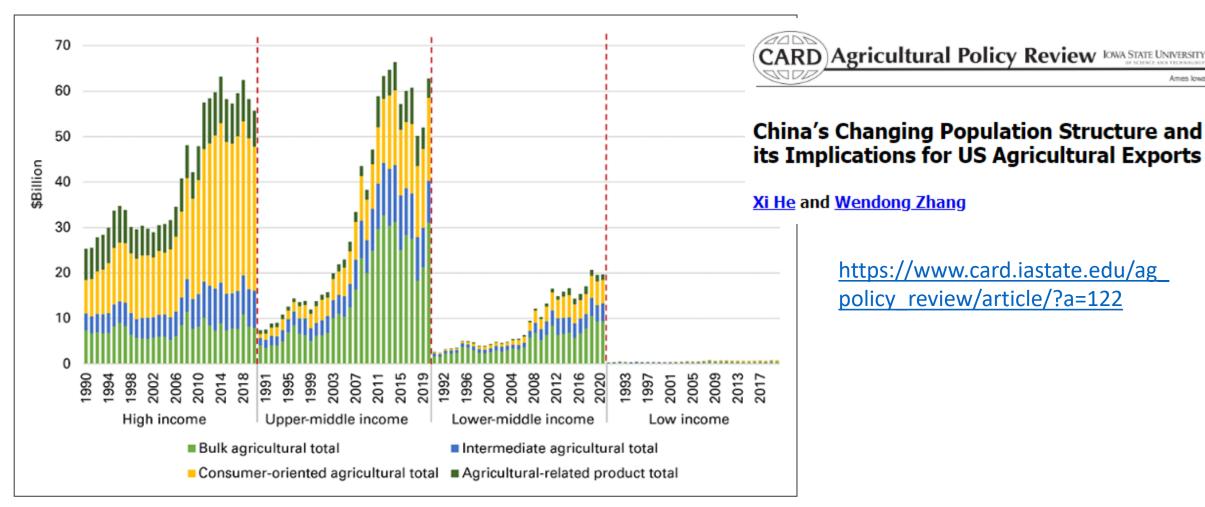
Yes, Chinese Population is Aging, but Income

Growth is More Important
Population pro Pop Population projection 2021 2043 China China India Age group Age group Male Female Male Male Female Female 90 - 100 90 - 100 80 - 90 80 - 90 70 - 80 70 - 80 60 - 7060 - 7050 - 60 50 - 60 40 - 50 40 - 50 30 - 40 30 - 4020 - 30 20 - 3010 - 20 10 - 20 0 - 10 0 - 10 15 Total: Total: Total: Population (in millions) 1,397,852,872 1,348,012,910 1,599,824,662 Data source: US Census Bureau IDB Median age Visualization by @aronstrandberg

Median age



States. Figure 2 illustrates US exports of four agricultural categories—bulk (e.g., corn, soybeans, wheat), intermediate (e.g., soybean meal and soybean oil), consumer-oriented (e.g., pork and beef products), and agriculture-related products (e.g., seafood and forestry products)—to high-income, upper-middle-income, lowermiddle-income, and low-income countries from 1990 to 2020.

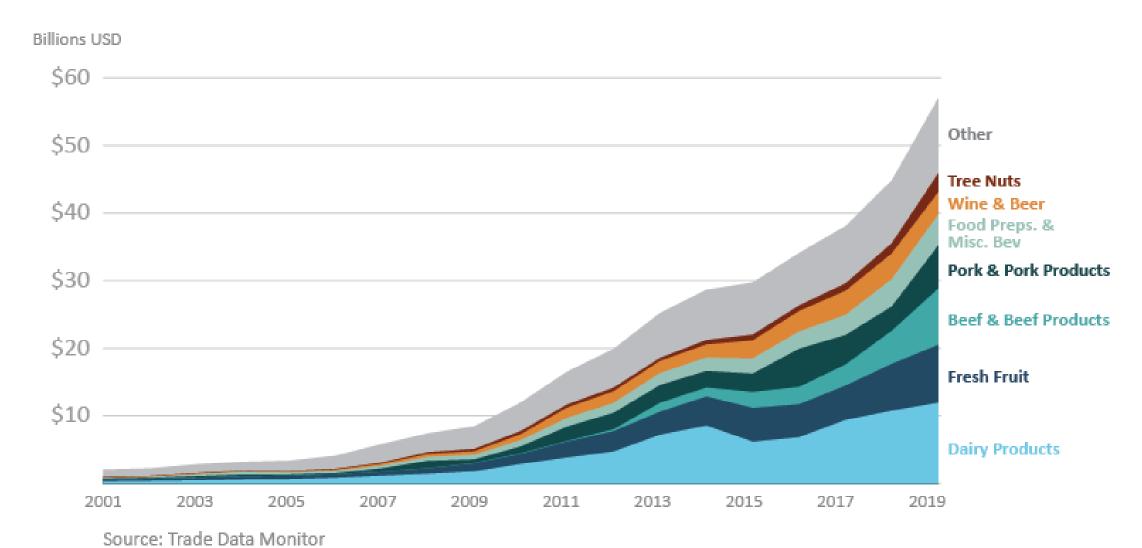


https://www.card.iastate.edu/ag policy review/article/?a=122

Figure 2. US exports of agricultural commodities to countries with different income levels.

Note: Based on data from USDA GATS (2021). We use World Bank's classification to classify countries into different income groups and use USDA's definition of agricultural products and classification of agricultural product categories.

China's Global Consumer-Oriented Product Imports, 2001-2019



https://www.fas.usda.gov/data/china-evolving-demand-world-s-largest-agricultural-import-market

Chilean cherry exports to China hit new high

By Chu Daye

Published: Jan 19, 2023 12:46 AM











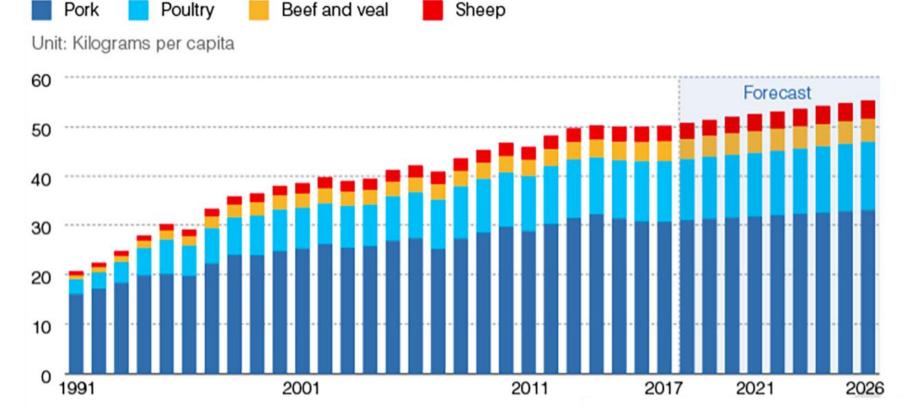




Fresh cherry exports from Chile to global markets in the 2022/23 season are expected to top 80 million boxes, or around 400,000 tons

89% of Chilean cherry exports go to China

A Meatier Middle Kingdom



What remains unchanged after COVID-19: Chinese surging meat consumption & beyond

Source: Wing United States

Original Sources: Organization for Economic Co-operation and Development, Food and Agriculture Organization of the United Nations

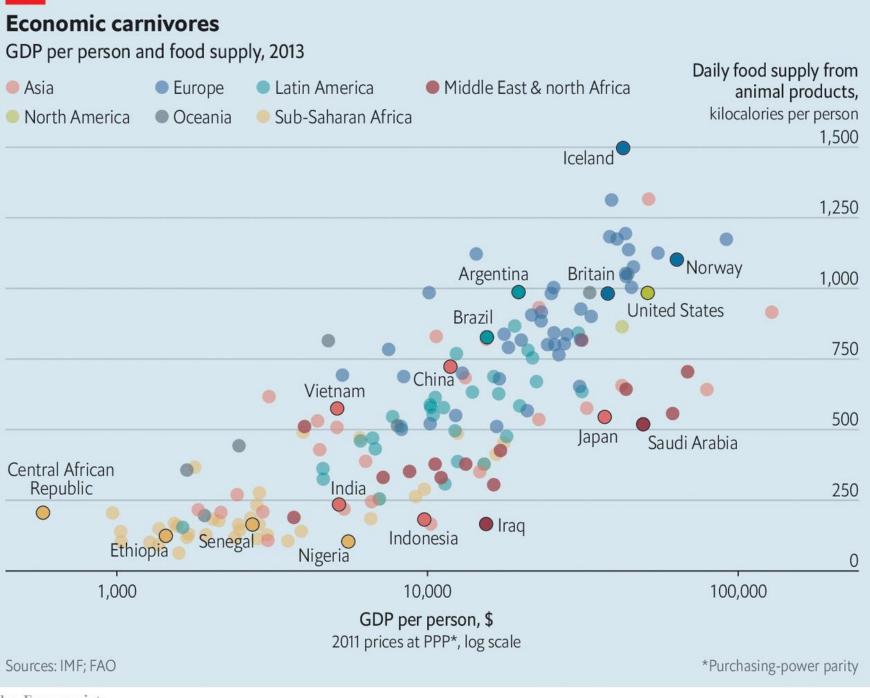
Calxing Management Man

Oct 12, 2018 08:20 PM

DAILY CHART

Charts of the Day: China's Growing Meat Consumption

Meat Economics



The Economist

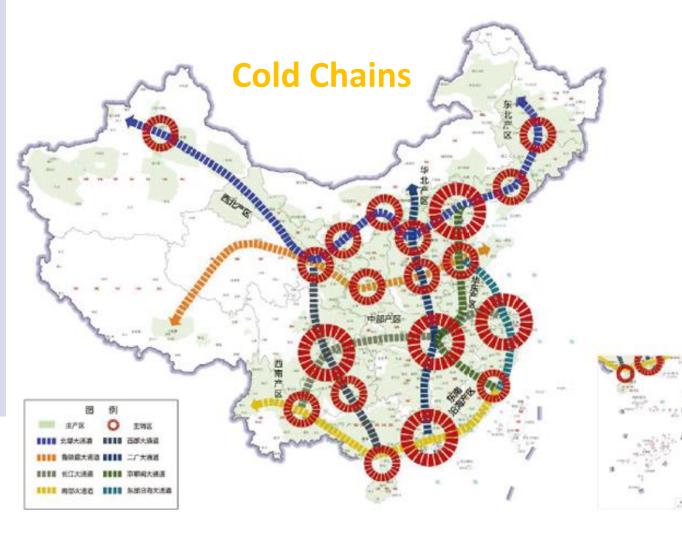
China High Speed Railway Map (Click to Enlarge)

High Speed Rail

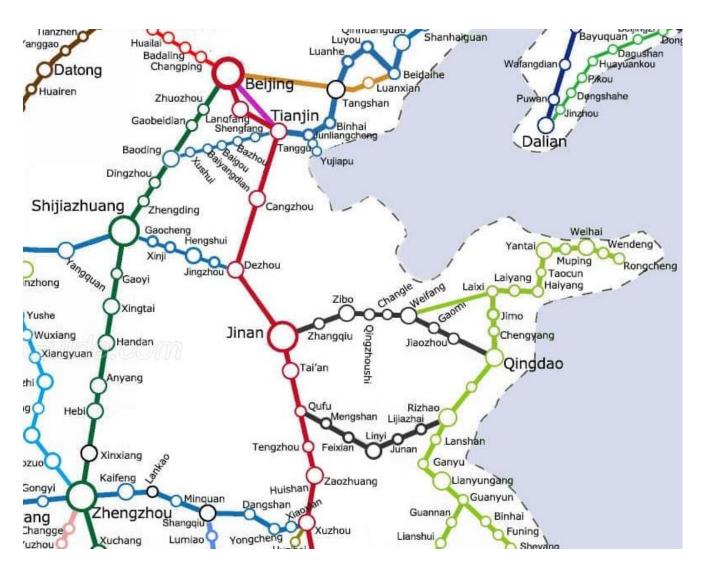
https://www.travelchinaguide.com/images/map/train/high-speed-railway.jpg

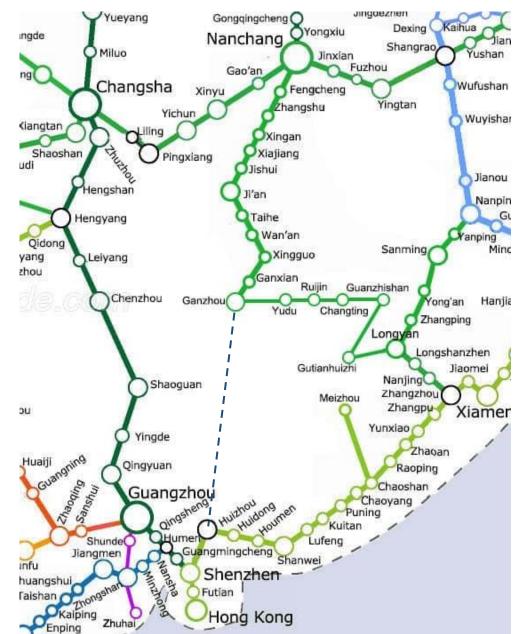
China is a Country of Rapid Change

"四横四纵"国家冷链物流骨干通道网络布局示意图



China's High Speed Rail Map, 2021

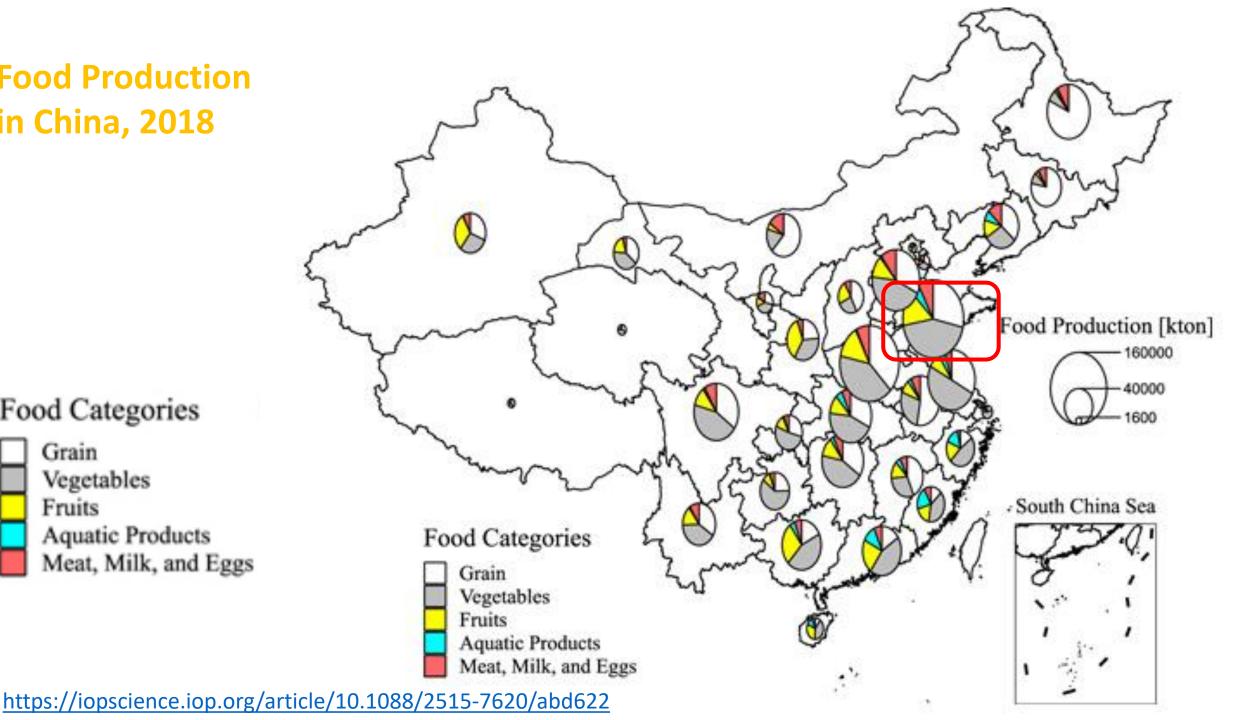




Food Production in China, 2018

Food Categories

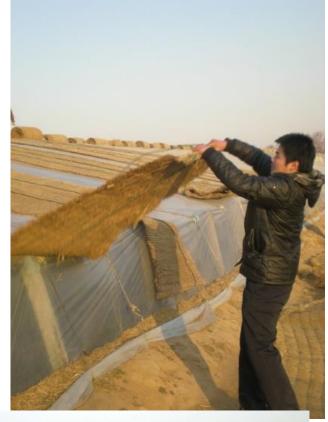
Grain Vegetables Fruits Aquatic Products Meat, Milk, and Eggs



Agricultural transformation in my hometown

Greenhouse – plastic film - Shandong Province





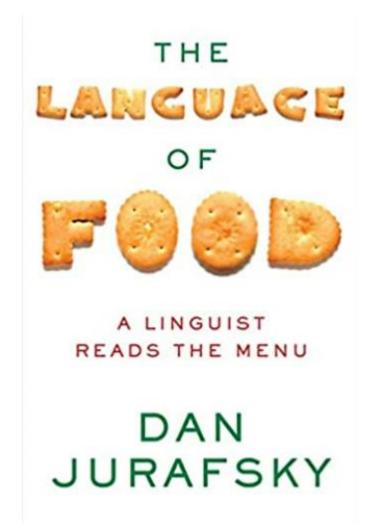


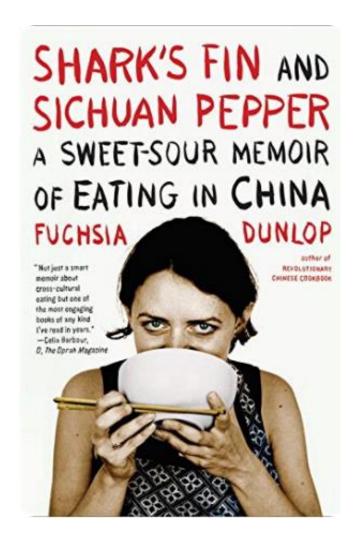
Now the high-tunnel production system has been upgraded

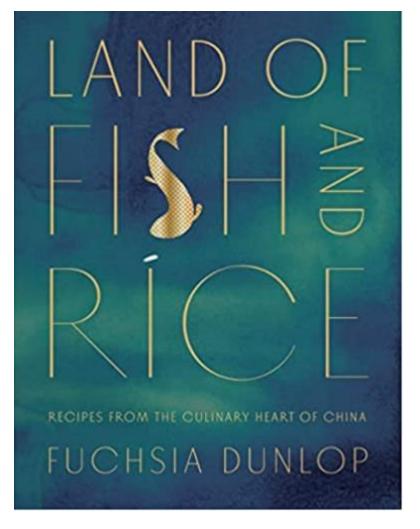




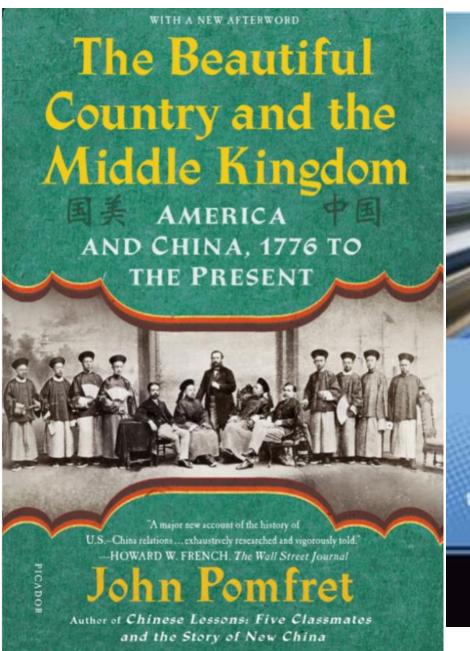
Learn more about Food and China

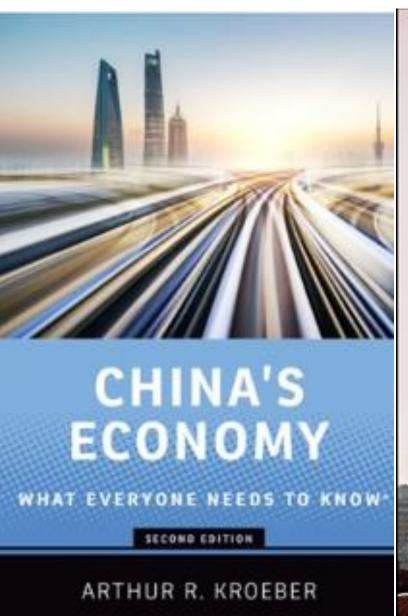






Learn more about contemporary Chinese economy

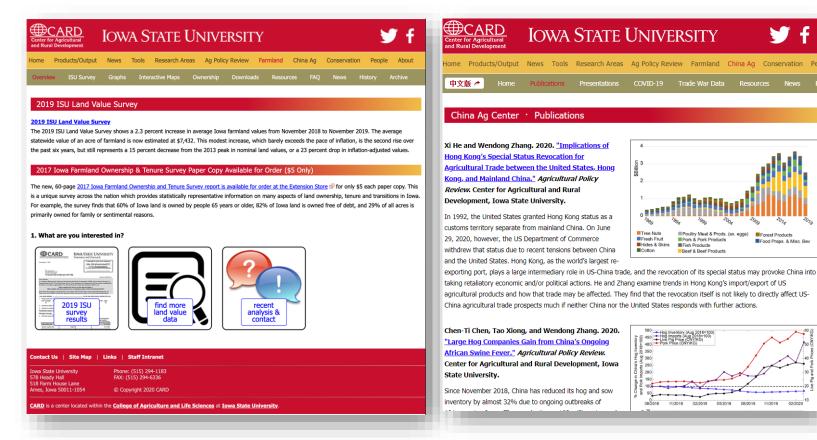




How the Urban-Rural Divide Threatens China's Rise INVISIBLE CHINA

Thank You!





www.card.iastate.edu/farmland

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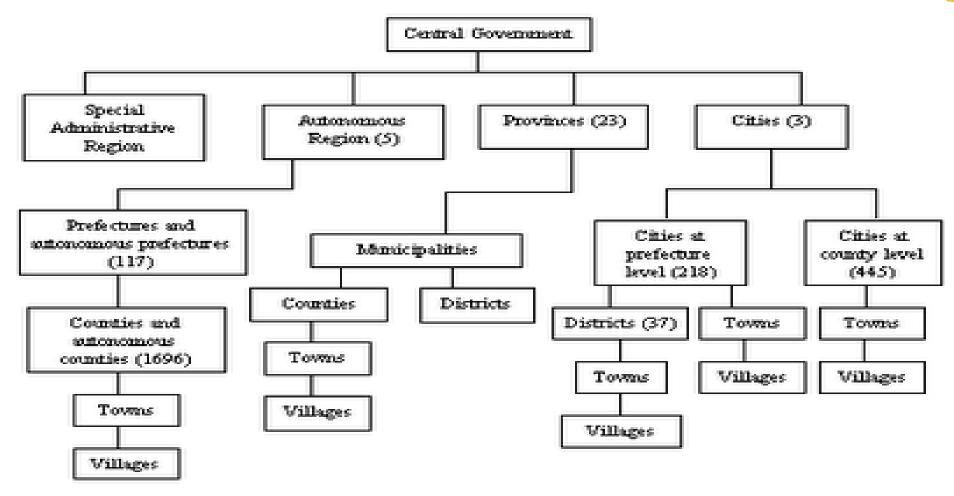
www.card.iastate.edu/china

■Cotton

Beef & Beef Product

IOWA STATE UNIVERSITY

China's Governance Hierarchy



2000 yrs of imperial history - huge legacies on governance structure the only exception: emperor replaced by central government

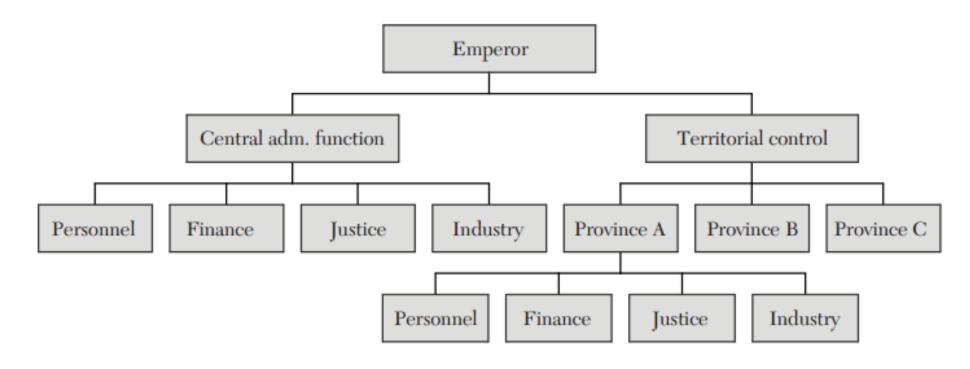
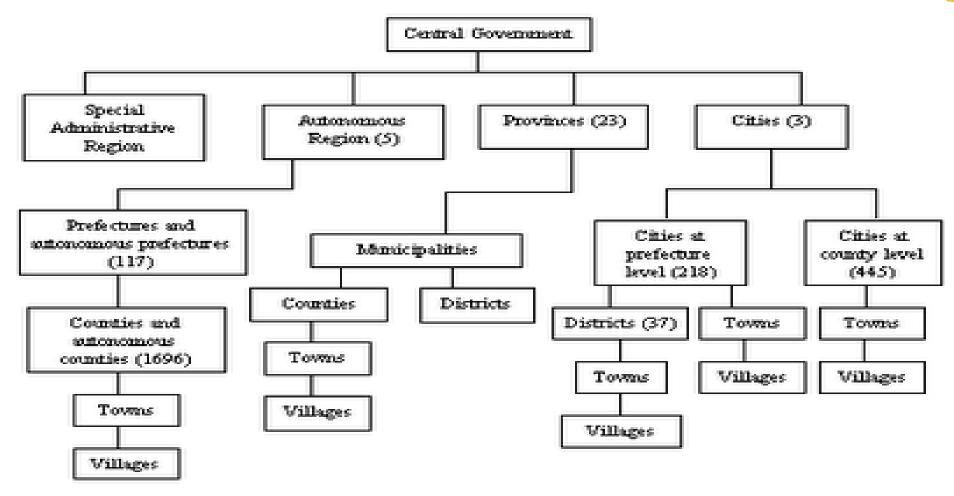


Figure 3. Stylized Governance Structure of Imperial China

New additions: VA, ICE (following US governance structure)

China's Governance Hierarchy



2000 yrs of imperial history - huge legacies on governance structure the only exception: emperor replaced by central government

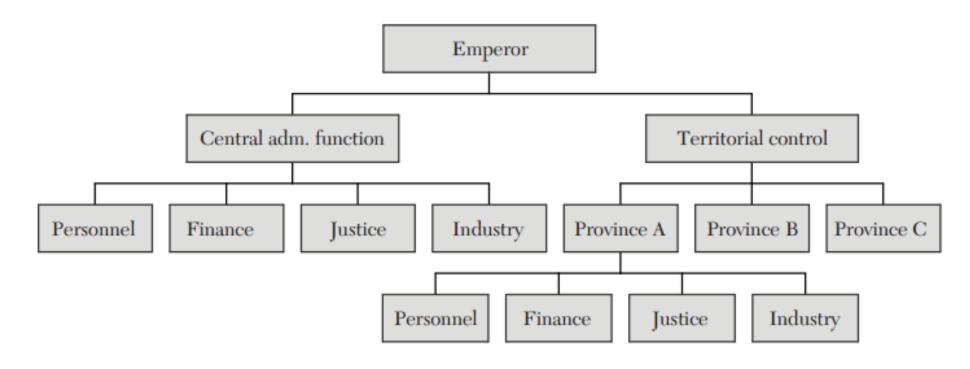


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China's Regional Decentralized Authoritarian (RDA) Regime

CHINA'S POLITICAL-ECONOMIC INSTITUTIONS AND DEVELOPMENT Chenggang Xu

CHARACTERISTICS OF CHINA'S RDA REGIME COMPARED WITH OTHER REGIMES



	China's RDA regime	Soviet system	Federal State
Composition of national decision-making body	Central, regional and ministerial officials	Central and ministerial officials	Federal legislature representing regional constituencies
Decision-making process	Central-regional bargain- ing; consensus building; local experiments as a strategy	Top-down; SOE-Ministry bargaining	Voting in legislation; federal-state bargaining
Subnational officials' incentives	Promotion: absolute and relative performance; accountable to superiors; personnel control	Promotion: absolute performance; accountable to superiors; personnel control	To be elected; independent from the federal government; accountable to local constituencies
Regional competition	Tournament-like competition; competition affects governor's promotion	Not important	Fiscal (Tiebout) competition; competition affects governor's re-election
Regional experiment	Local experiments as part of central decision-making; experimental results may become national policy	Not important	States are "laboratories" for policy; voluntary adoption of experiments by states
ww.cato.org/site	s/cato.org/files/serials/file	s/cato-journal/2015/9/	cj-v35n3-4.pdf

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The Effect of Economic Performance on the Turnover of Provincial Leaders $(Ordered\ probit\ regressions)$

	Dependent variable: turnover (0 = termination, 1 = same level, 2 = promotion)							
	(1)	(2)	(3)	(4)	(5)	(6)		
Provincial annual GDP growth rate	1.615** (2.05)	1.581* (1.87)						
Provincial average GDP growth rate			4.727*** (4.34)	4.540*** (3.90)				
Provincial average per capita GDP growth rate (A)	Wh	10 g	et		3.001** (2.10)			
Provincial average per capita GDP growth rate of the immediate (B) predecessor (B)			ted	as	-3.584** (2.36)			
(A)-(B)	Go	veri	nor?			3.309** (3.41)		
Age		$-0.026* \\ (-1.91)$		-0.023* (-1.68)	-0.071*** (6.81)	-0.070** (6.77)		
Age 65		-0.974*** (-5.27)		-0.976*** (-5.25)	-0.303** (2.07)	-0.303** (2.07)		
Education		0.154 (0.96)		0.187 (1.17)	0.183 (1.48)	0.184 (1.50)		
Central connection		0.384*** (2.79)		0.404*** (2.89)	0.082	0.085		