TANG AND SONG DYNASTIES

Period 3

AGRICULTURE

Cultural Diffusion from China 500–1,000 AD Japan Centralized government
 Agricultural techniques and
 System of weights and
 System of weights and
 measurements China

NEW TECHNIQUES

- beasts of burden (ox, water buffaloes)
- fertilizer (manure)
- irrigation



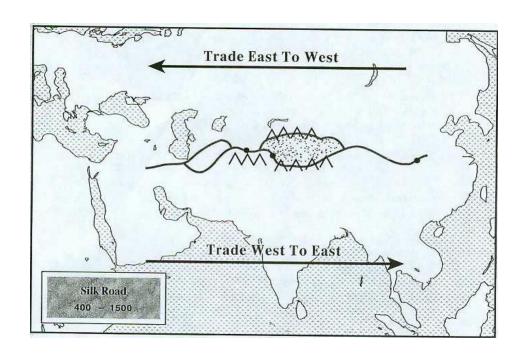
CHAMPA

- fast growing rice (Vietnam)
 - two crops per year
 - expansion of food supply





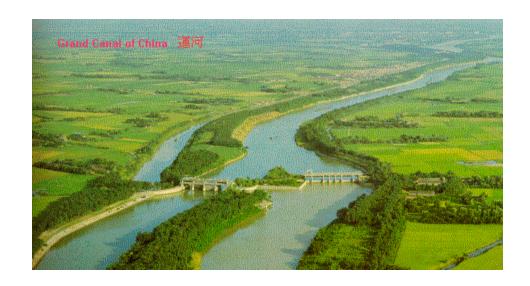
ECONOMIC EXCHANGE



Items Traded West to East		Items Traded East to West	
Garlic Grapevine Spices Spinach Cotton	Herbal medicines Horses Camels Gems, gold and silver Ivory	Silk Porcelain Technology and Inventions Compass Paper Gun Powder	

GRAND CANAL

built during the Sui Dynasty





Purpose

- facilitate trade b/t North and South
 - bring Champa rice to the North



• Reason

rivers run east/west

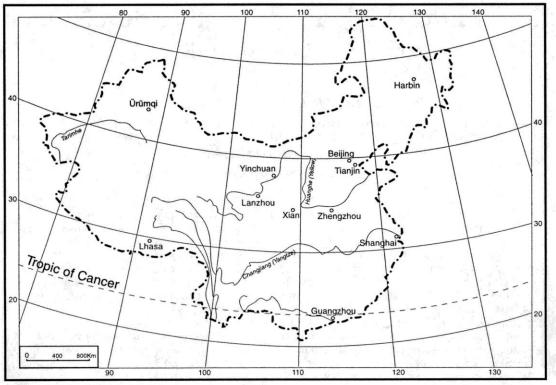
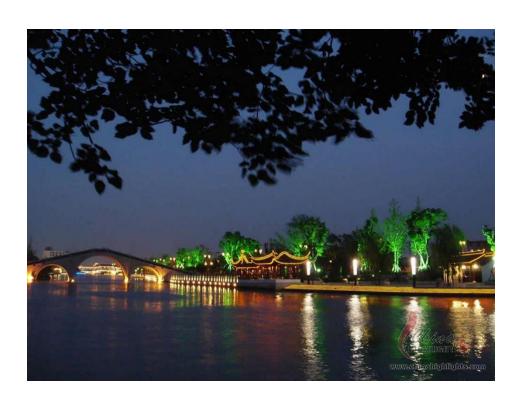


Figure 1 The location of China's two major rivers: Huanghe (Yellow River) and Changliang (Yangtze River)

Results

- integrated economies of China
- established political and cultural unity



LETTERS OF CREDIT

• "flying money"

- deposit goods at one location
- receive voucher
- redeem at next location



PAPER MONEY

resulted from shortage of coins



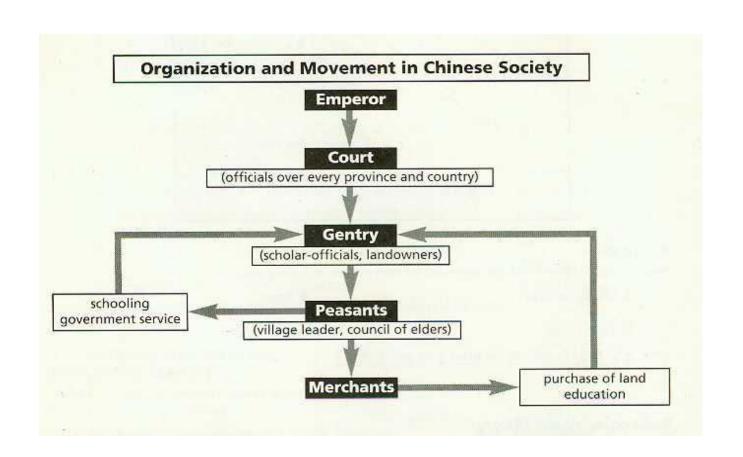
TEA

compressed into bricks and used as money



1 Wars force farmers to move south, where they grow
rice,
Commercial (business) centers in China grow into
large cities.
Growth of trade and commerce opens up job
opportunities.
Farmers take time away from farming to make other
products to sell.
A food surplus is generated and sold at market.
Landowners become rich enough to buy luxury
items.
Better farming technologies and quick-ripening rice
increase crop production.

SOCIETY/GOVERNMENT



Document 6

"The basic justification for the Chinese Imperial (civil service) Exams was that appointees to civil service positions were not to be chosen through special or inherited privilege, but through an individual's own abilities. For centuries, the might of China was established militarily, often by emperors from humble origins who had toppled existing dynasties. However, once in control, these emperors soon realized that the actual governance of China would require the administrative services of thousands of bureaucrats. The civil service examination was thus a means for creating such a body of men..."

http://www.csupomona.edu/~plin/ls201/confucian3.html

Document 7

"The examination system also helped to maintain cultural unity and agreement on basic values. The fact that the content of the examinations were uniform (did not vary) meant that the local scholars and ambitious would-be scholars across the whole of China were taught with the same values. Even though only a small fraction (about 5 percent) of those who attempted the examinations passed them and received titles, the studying and the hope of eventual success on a another examination sustained the interest of those who took them. Those who failed to pass—most of the candidates at any single examination—did not lose wealth or local social standing; as dedicated believers in Confucian ideals, they served, without the benefit of state appointments, as teachers, patrons (supporters) of the arts, and managers of local projects, such as irrigation works, schools, or charitable foundations."

http://en.wikipedia.org/wiki/Imperial_examination

CITIES

CHANGPAN

- capital of Tang
- world's most populous city (2 mil.)

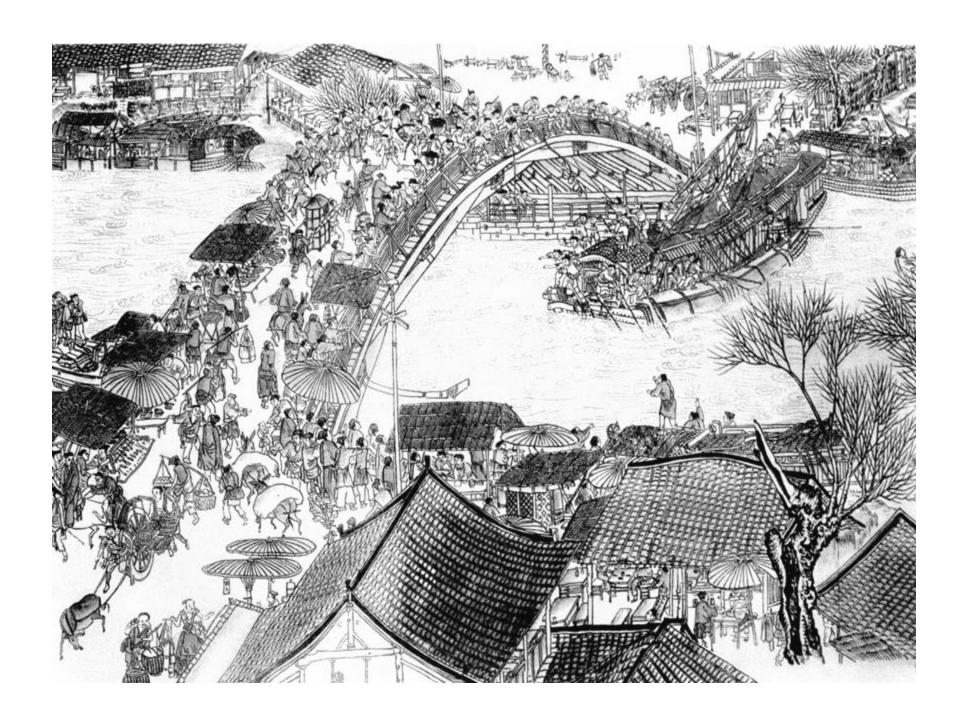




HANGZHOU

- capital of Song
- over 1 million people
- south end of Grand Canal





SPECIALIZATION

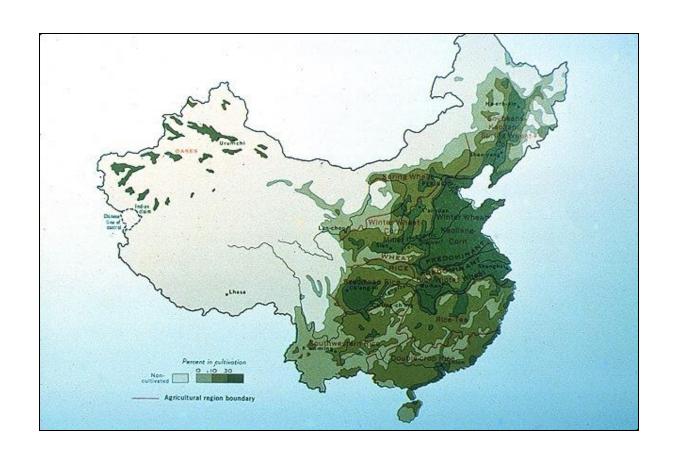
Increased Urbanization

- merchants
- artisans, printers
- performers, restauranteurs



Agricultural Specialization

each region focused on different crops



RELIGION

TANG DYNASTY

Buddhism

- strong social, economic, and political force
- Empress Wu...attempts to make it state religion





SONG DYNASTY

Rise of neo-Confucianism

- morality is highest goal
- hostile to outside influences
- stifled innovation and critical thought
- emphasized gender distinctions



TECHNOLOGY

Invention	Date	Description	Impact
Gun Powder	900 CE	Explosive powder made from mixture of saltpeter, sulfur, and charcoal	First used for fireworks, then weapons, technology spread west within 300 years.
Magnetic Compass (for navigation)	1100 CE	Floating magnetized needle that always points north-south; device had existed in China for centuries before it was adapted by sailors for use at sea	Helped China become a sea power; technology quickly spread west
Mechanical clock	725 CE	Clock in which machinery (driven by running water) regulated the movements	Early Chinese clocks short -lived; idea for mechanical clock carried by traders to medieval Europe
Paper money	960 CE	Paper currency issued by Song government to replace cumbersome strings of metal cash used by merchants	Contributed to development of large- scale commercial economy in China
Porcelain	600 CE	Bone-hard white ceramic made of a special clay and a mineral found only in China	Became a valuable export-so associated with Chinese culture that it is now called "china", technology remained a Chinese secret for centuries
Printing	Block printing: 735 CE	Block printing; one block on which a whole page is cut	Printing technology spread to Korea and Japan

Summary of the Transmission of Mechanical and Other Techniques From China To the West						
Type of Device	Approximate Time-lag in Centuries	Type of Device	Approximate Time-lag in Genturies			
Silk-Manufacturing Machinery	3-13	Deep Drilling for Natural Gas	11			
Wheelbarrow	9-10	Gunpowder	5-6 4 (for military use)			
Efficient Harness For Draught-Animals: Breast Strap (Postilion)	8	Magnetic Compass	11 4 (with needle) 2 (for navigation)			
Crosebow (as an individual arm)	13	Paper	10			
Printing (Block)	6 4 (Movable Type) 1 (Metal Movable Type)	Shipbuilding Methods (including watertight compartments, efficient sails, and the rudder)	10			

Source: Inner Asian and Uralic National Resource Center, "Journeys Along the Silk Road-Unit 1- Middle-High School."

http://www.indiana.edu/~iaunrc/content/journeys-along-silk-road-unit-1-middle-high-school#_ftneff

PORCELAIN

- lighter, thinner, more adaptable form of pottery
- reputation so high became known as "china"





Book Printing c. 868 CE

- became common during Tang Era
- earliest = block printing
 - reverse image on block, inked block, pressed sheet on top of it



• mid 11th century

- started using frames (multiple blocks)
- speeded it up, allowed revisions
- larger quantities more quickly, cheaper



• Impact...mass production of

- Buddhist books
- Confucian works
- calendars

GUNPOWDER

• "fireworks to flamethrower"

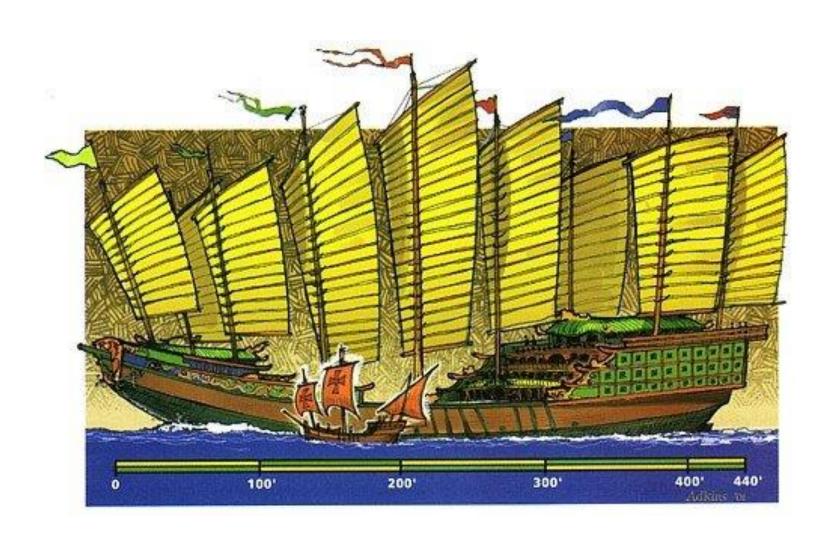


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RANDOM

JUNKS



FOOTBINDING

