Angkor: Urbanism and Political Economy

Miriam T. Stark University of Hawai'i at Mānoa, USA

Center for Khmer Studies
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Thanks to colleagues for participating in our broader collective



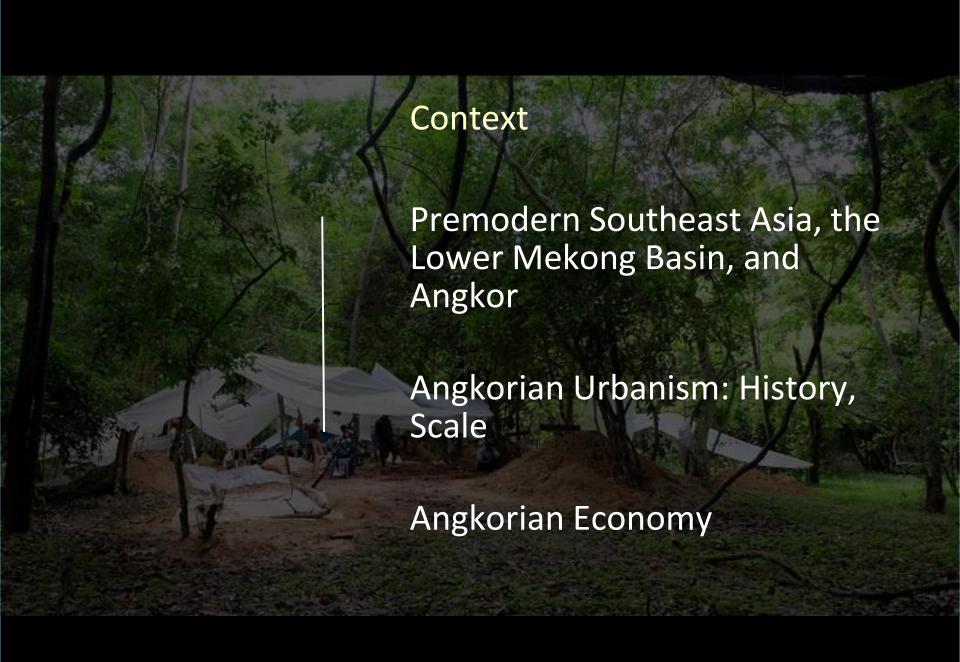
Context

Place

Urbanism

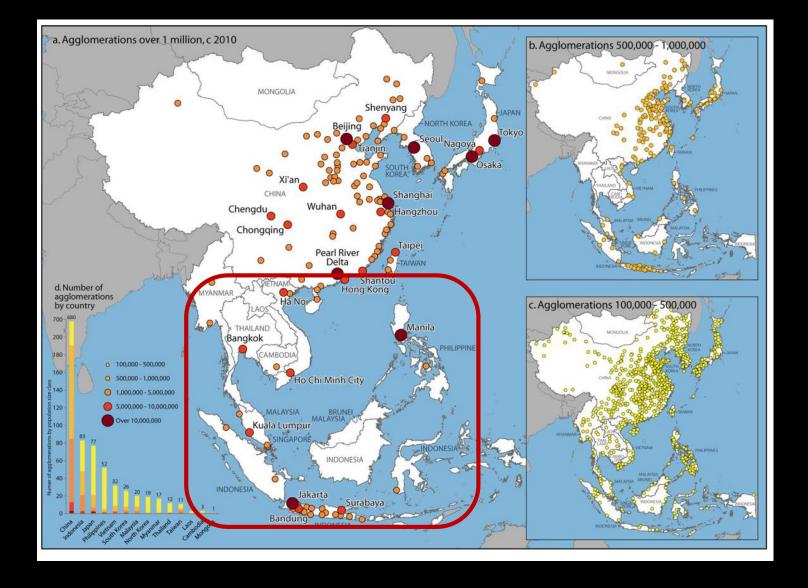
Economy

Bodhisattva Avalokiteshvara, 7th – 8th century CE Southern Vietnam (Musée Guimet)



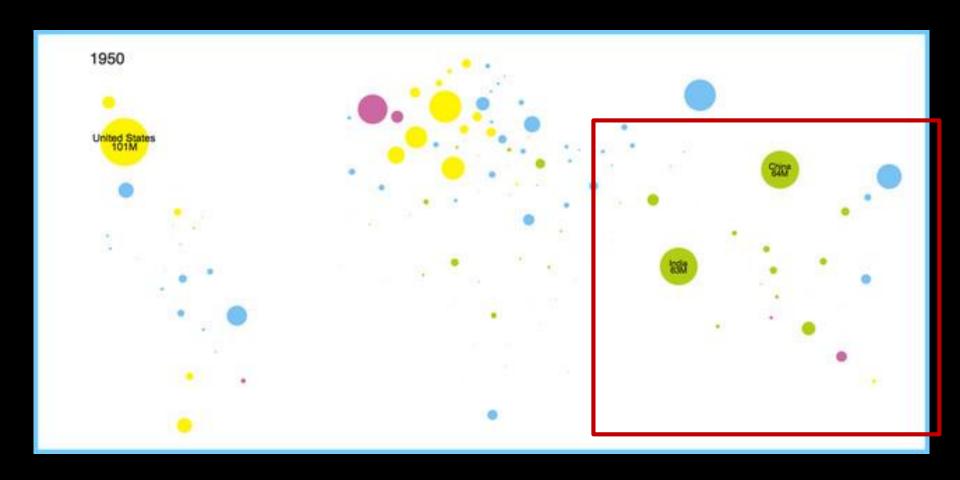


Southeast Asia

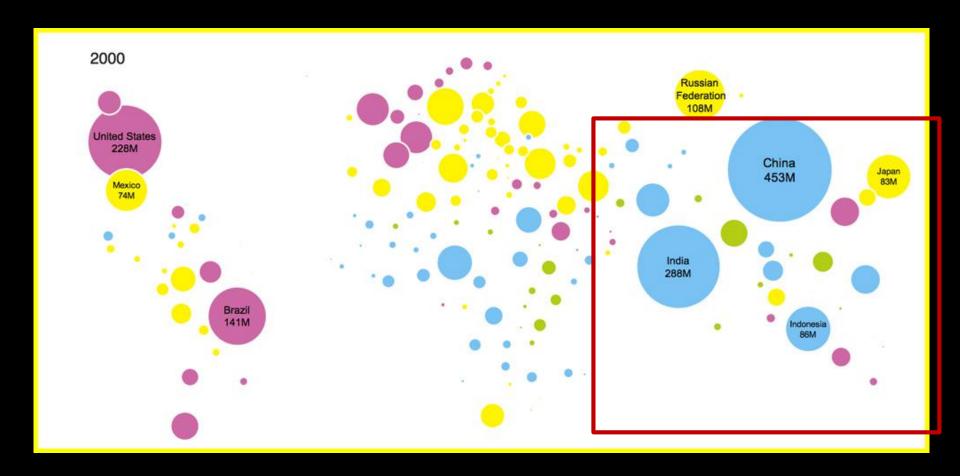


Southeast Asian Urbanism





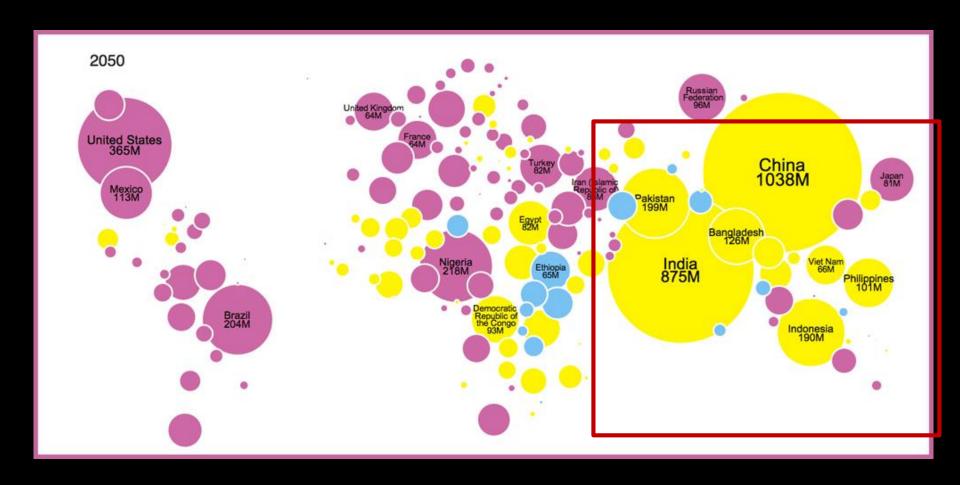
East, South and Southeast Asia



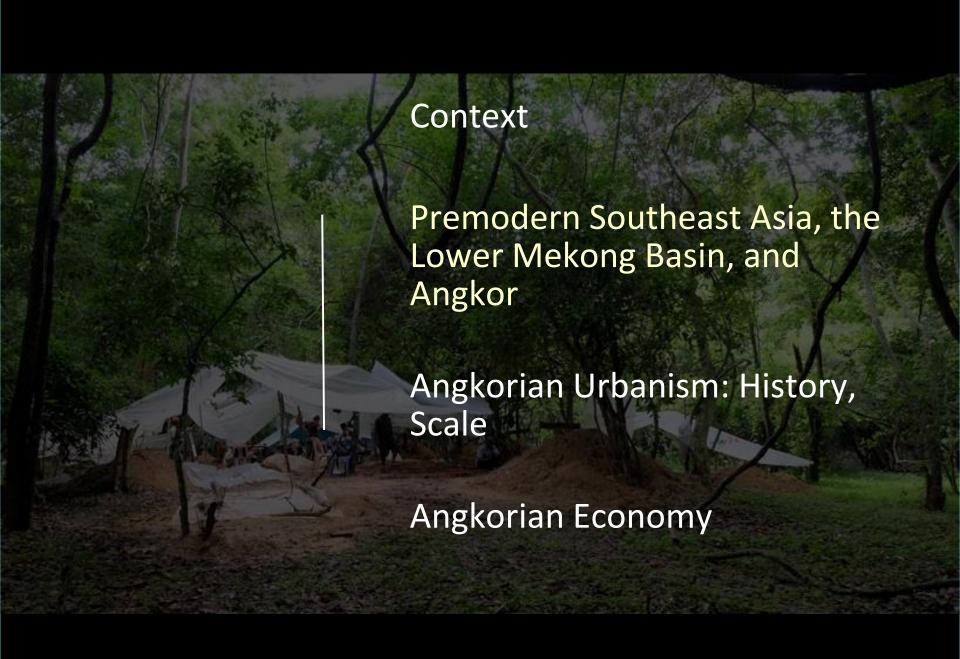
East, South and Southeast Asia



Ho Chi Minh City, Vietnam 8.93 million residents



Countries in East, South and Southeast Asia will have 5 of top 10 most populous nations (source)



Chronological frame



The Resident Resource

Departurely on Freizral Resources When Water and good said for cross Givenings Rates Carolisi (mas saled) evolutionary from larvey is schapers Mar Challes care

Defans the real according After thanter system. After Flavoring basing and fring pottery apertacles trade, browns and amaginity

the stone age was

nding and now

griculture and farming

as on the rise and so

as the ron age and

armals was happening.

increase. Now that they

as well as population

began to boyd froger

families since they didn't

paleolitha to nealthic is

which was so significant

sst have to move around to get food and other

no important because they learned how to famil



Beginning of Tang Dynasty

Roman Empire



717-718 C.E Muslim Conquests

Byzanone Empire. They also

Muhammad's Death

632 C.E

sar as France (Franks stop their advance). This is very move on to France establishing Muslim control of the Septimania region of southwestern France.

800 C.E

Islamic Expansion

750, C.E

Charlemagne known as Charles the Great or Charles I. was the King of the Franks

from 708, the King of Italy from 774, and from 800 the first emperor in western Europe since the collapse of the Western Roman Empire three centuries earlier. This is known to be the revival of Europe from the dark ages and they



encouraged culture

1187 C.E Rise of the Mongols

The Crusades

Rome calls for

all Christians to

expel Muslims

from Jerusalem

region(consider

Land as it was

the area in

Christ lived)

and from the

Crusades

Byzantine

Empire.

surrounding

ed Holy

begin: Pope

Urban II of

Arabs exteblish regular trade

Sahara Trading

800-1100 C.E

Africa; they gradually extend routes

across the Sahara desert min the

Muslim world in the mid-1100s, and a nowe-ful Khwarazmian Empire had emerged in Persia. However, around when the cuthless Monnols would make their way into Southwest Asia



1200 1291 C.E. Crusades

Mongols sack Baghdad

many Muslims: end of

Mongols @ Baghdad

the Abbasid caliphs.

Genghis Khan Genghis was the leader of the Mangals he lived from (1162-1227)

chunks of central Asia and China, His descendents expanded the empire even further, advancing to places such as Poland, Vietnam, Syria and Korea Genghis Khan died in 1227 during a military



and trade. The empire gained most of its wealth through its control of the trade routes that passed through its territory. Gold and salt were the most important groducts that moved along the routes. Because of the wealth of the Mali Empire, a large army was needed to protect the empire from attack. This army also made sure that traders and merchants were safe during their

As king, Musa encouraged agriculture, industry.

lands of the empire Musa was a Muslim or follower of Islam

Mansa Musa 1324

As well as any other Empire of group the amount of mongols began to decline because it was becoming too powerful. They had conquered so much that one way or another they were going to become

overp pulated which then leads to the decline of an

Decl ne of Mongols

1349 Black Death The Black Death was one of the most

devastating

It is known that the first

crusade in 1095 with the stated goal of restoring

Jerusalem but it all ended

when Muslims defeated

Christians and remained

pandemics in human history, resulting in the deaths of an estimated 75 to 200 million people and peaking in Europe in the years 1348-50 CE. People viewed the plague as a punishment. For this reason

people looked into religion for protection.

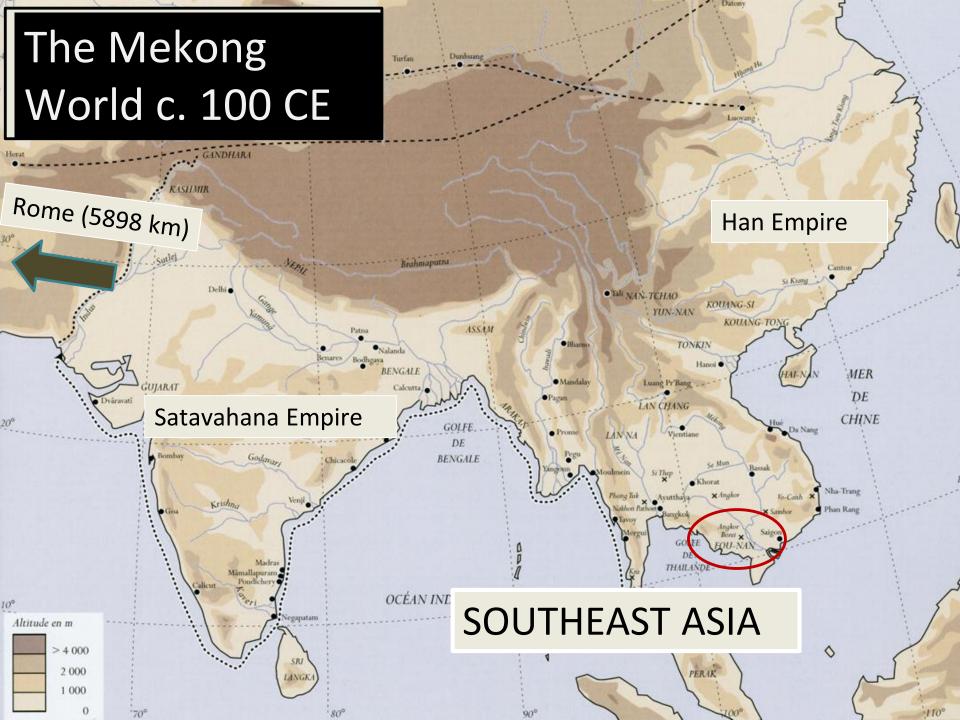






Premodern Mekong Basin

Protohistoric Protohistoric	Pre-Angkorian	Angkorian	Post- Angkorian
2	5	1	1
0	0	0	5
0	0	0	0
В	C	0	0
С	E	C	С
E		E	E



Sources



right: kraing, vean and sastra

Early
cities in
the
Mekong
Delta



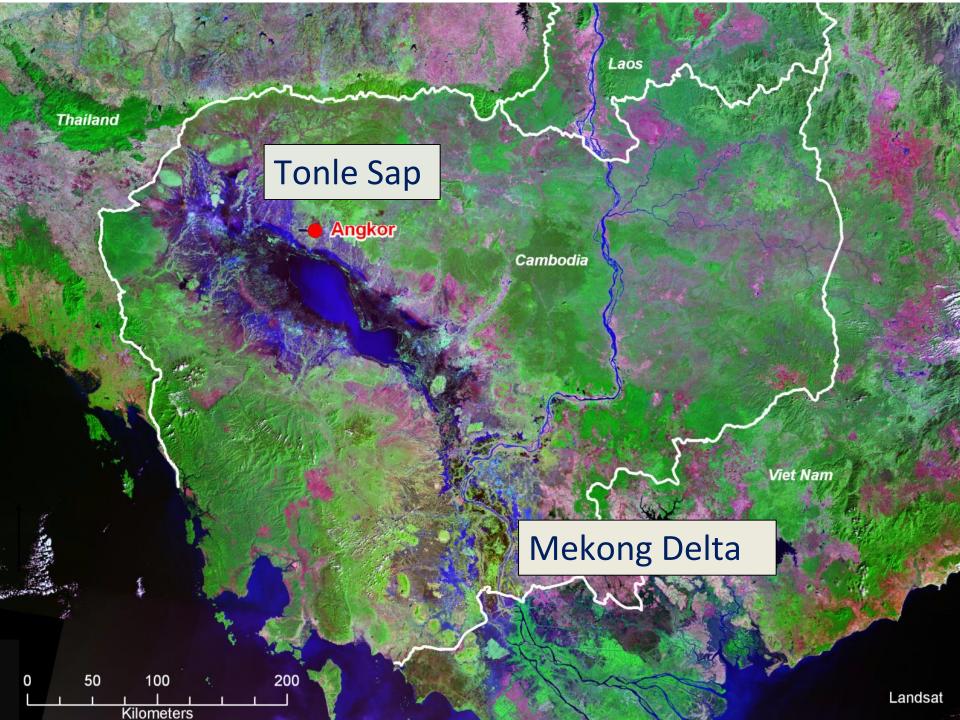




Angkor Borei (Cambodia)

Premodern Cambodia

Protohistoric Pr	Pre-Angkorian	Angkorian	Post- Angkorian
2	5	1	1
0	0	0	5
0	0	0	0
В	С	0	0
С	E	С	С
E		E	E

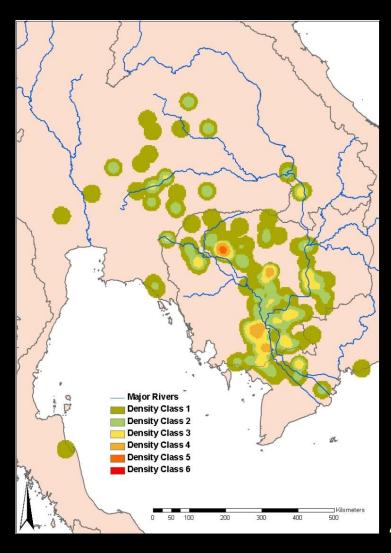


Introduction to Angkor

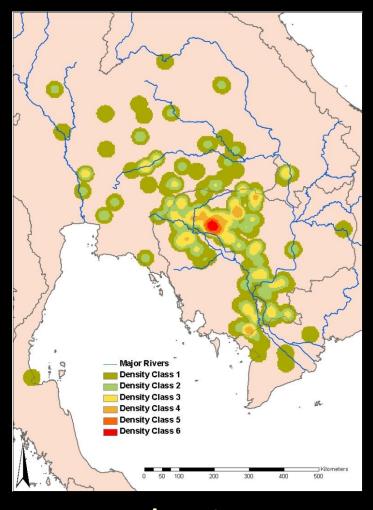


ANGKOR WAT (VISNULOKA)

Population hotspots through time (inscriptions)

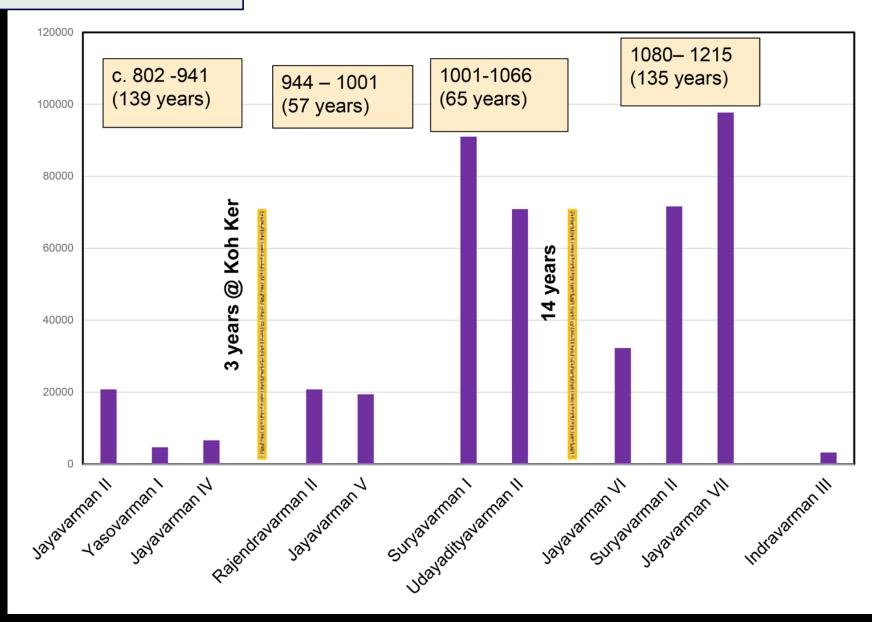


Pre-Angkorian 6th-8th c. CE

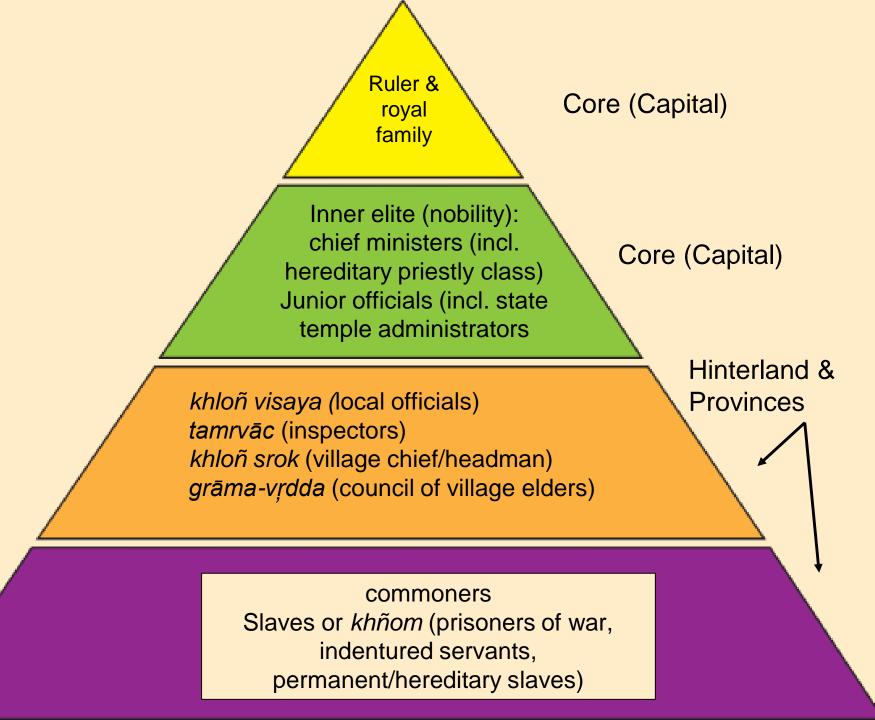


Angkorian 9th-15th c CE

Historic cycles







The Mark of Angkor



Preah Vihear







Khmer stoneware ceramics



Lopburi (Thailand

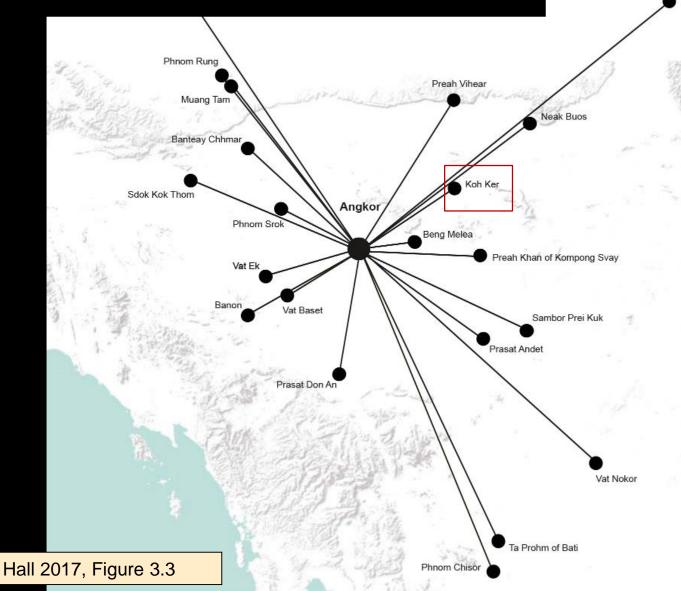


Angkor Wat

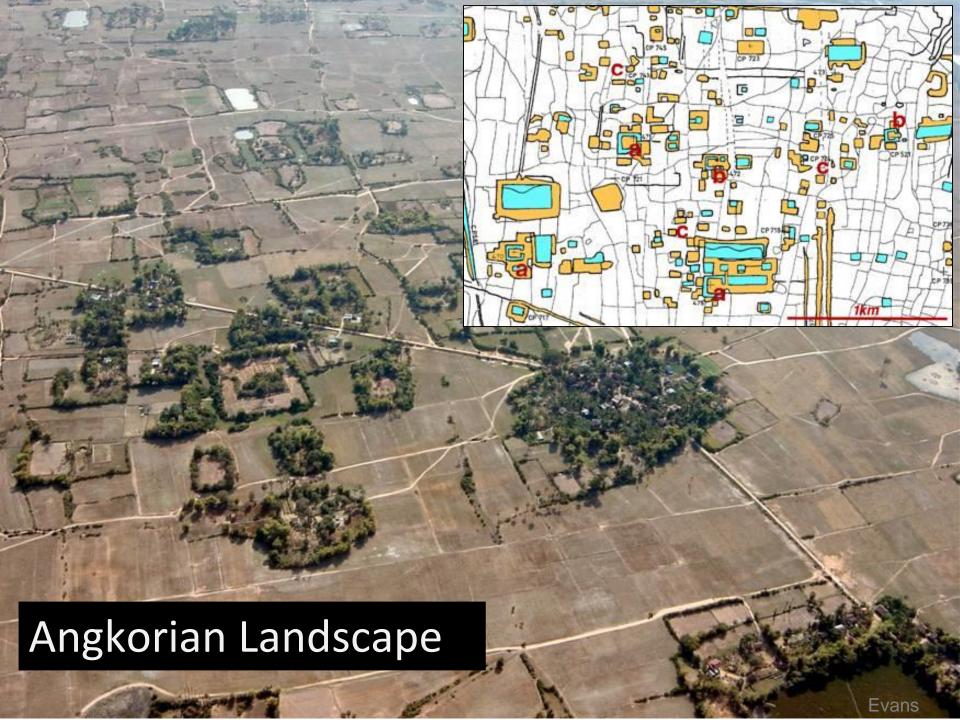


Lintel, Prang Ku SuanTaeng, Buriram

Connectivity between the capital and its hinterland



Vat Phu



Roads & water routes



Battambang to Siem Reap boat

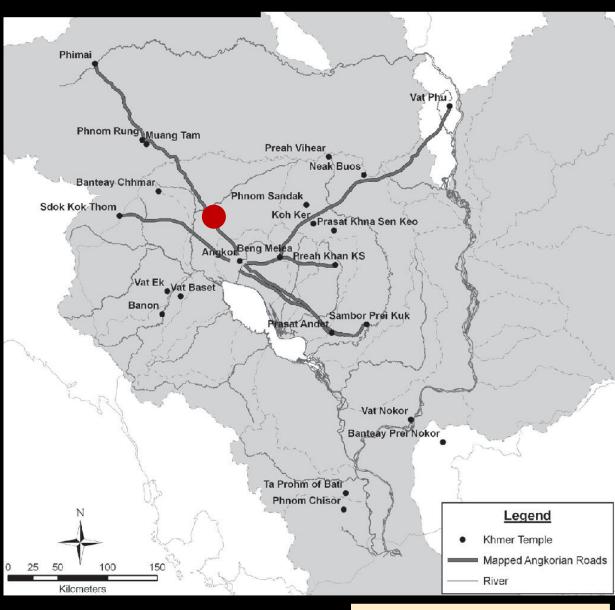
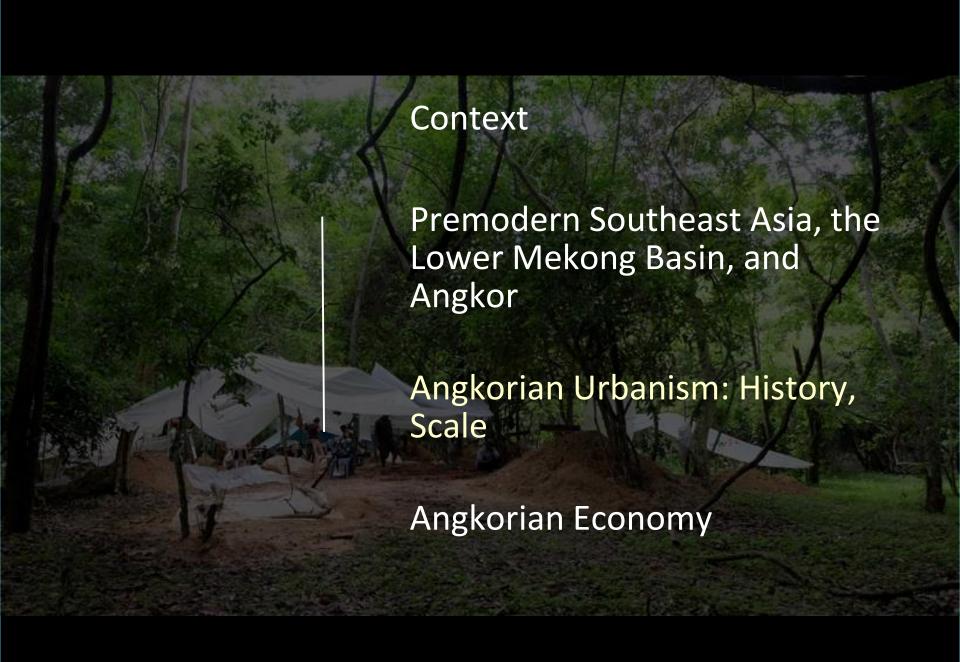
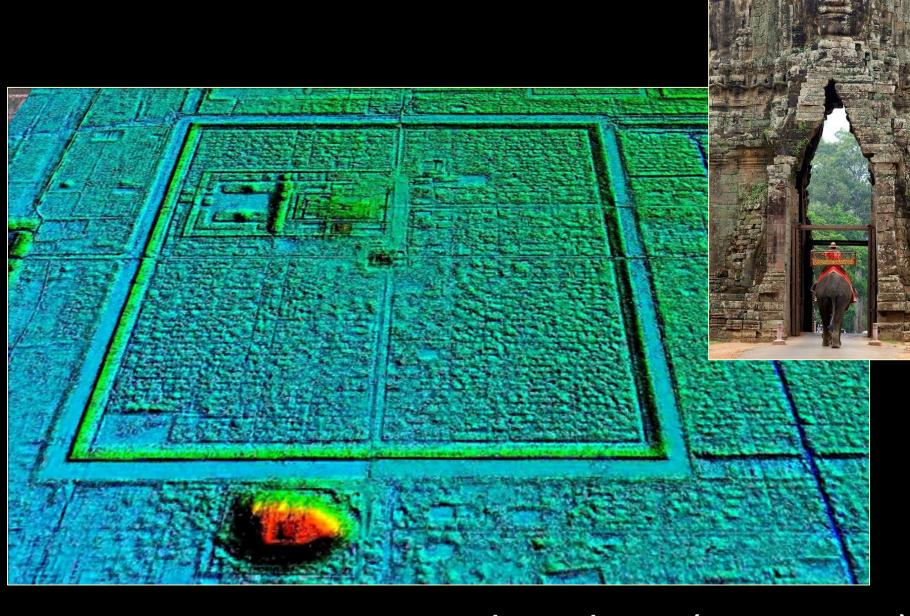


Figure 6.7 in Hendrickson 2012







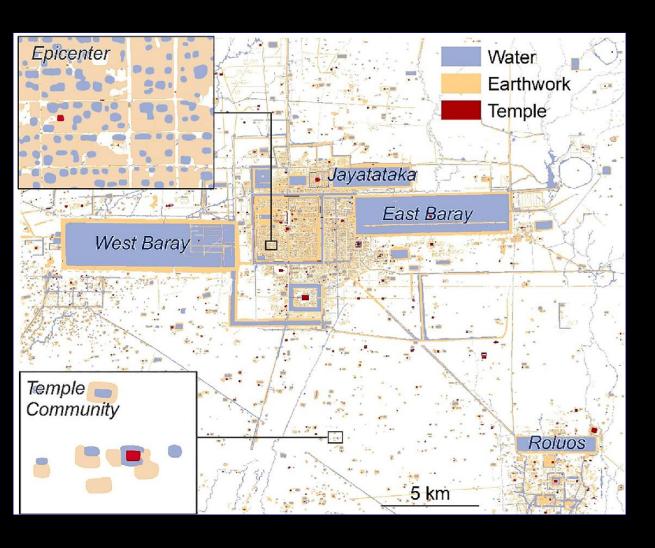


Angkor Thom (Great City)

Late 12th/early 13th century epicenter: Angkor Thom



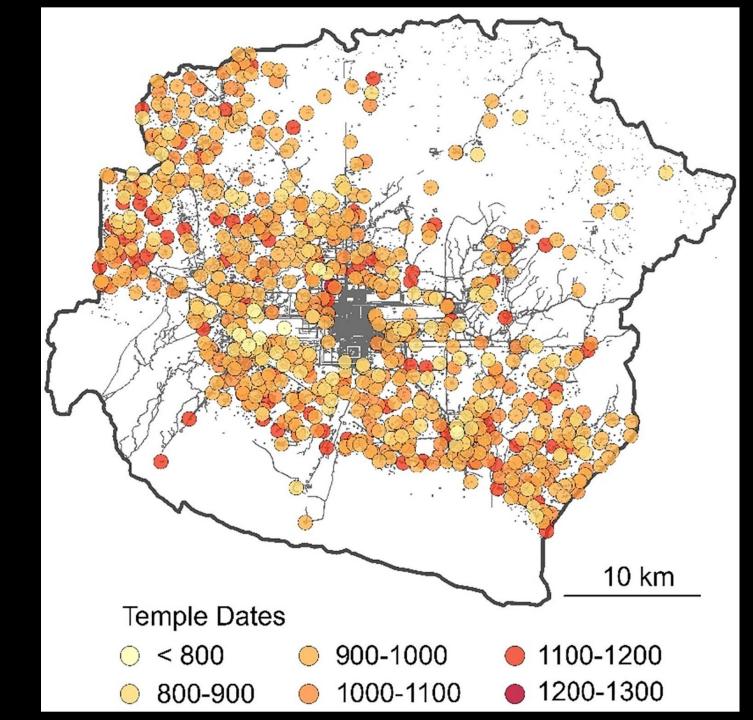
Angkor's Urban Population



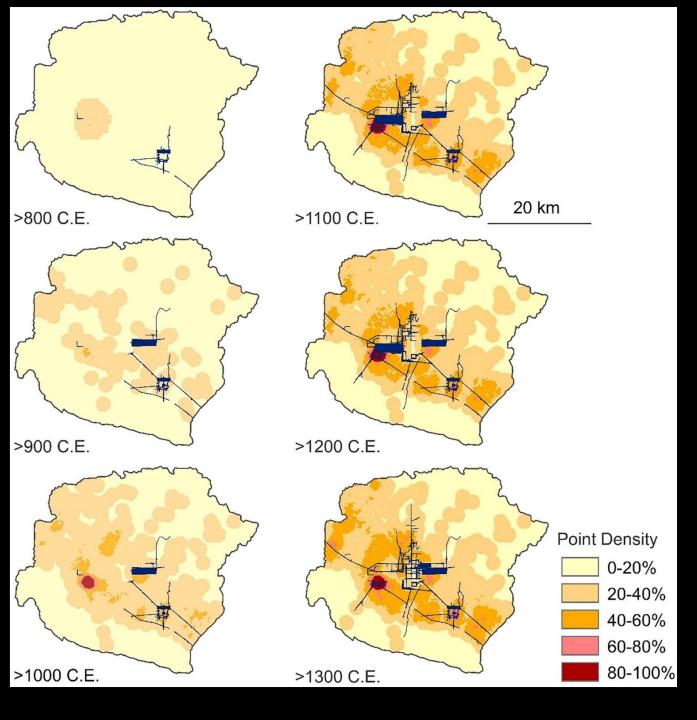
50 years of work

Work by multiple researchers and field projects

5,000 dated features



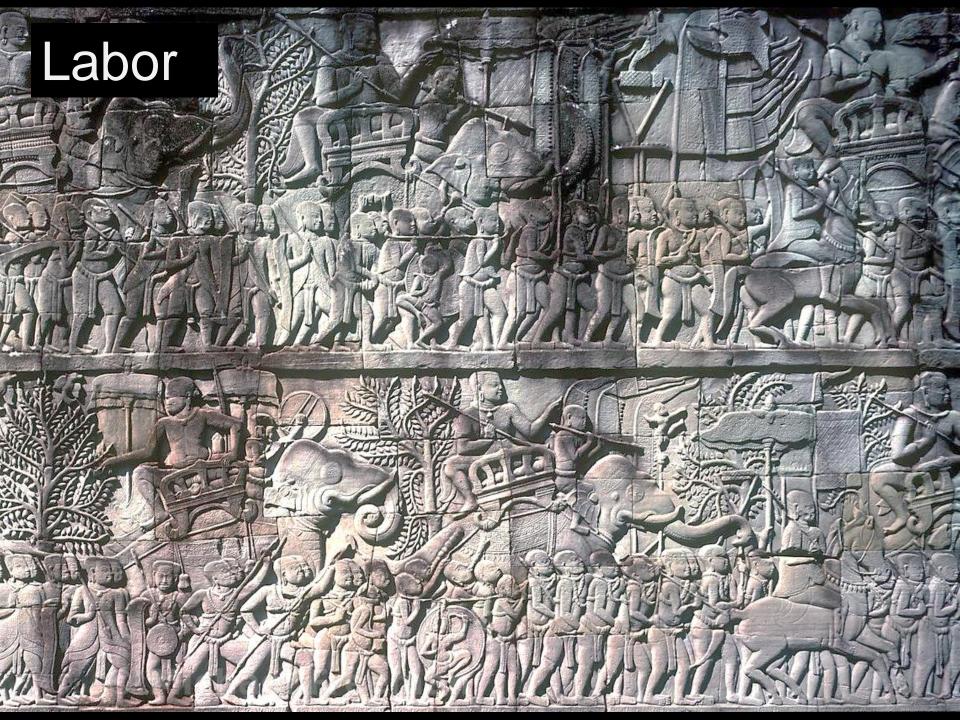
Klassen and Evans 2020: Figure 2



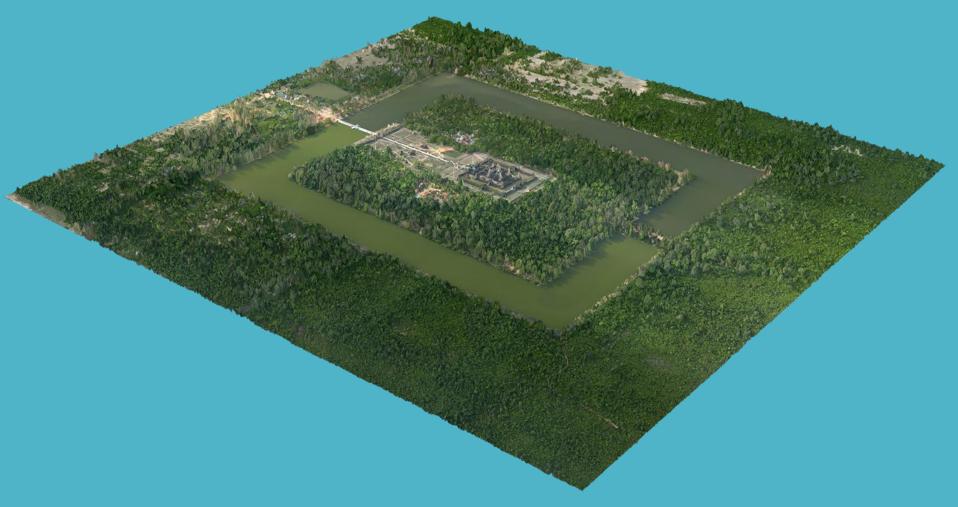
Estimated population of 700-900,000 at 12th/13th century peak

Relative point density of temples on the landscape (based on the centroid of temples)

Klassen and Evans 2020; Klassen et al. 2021



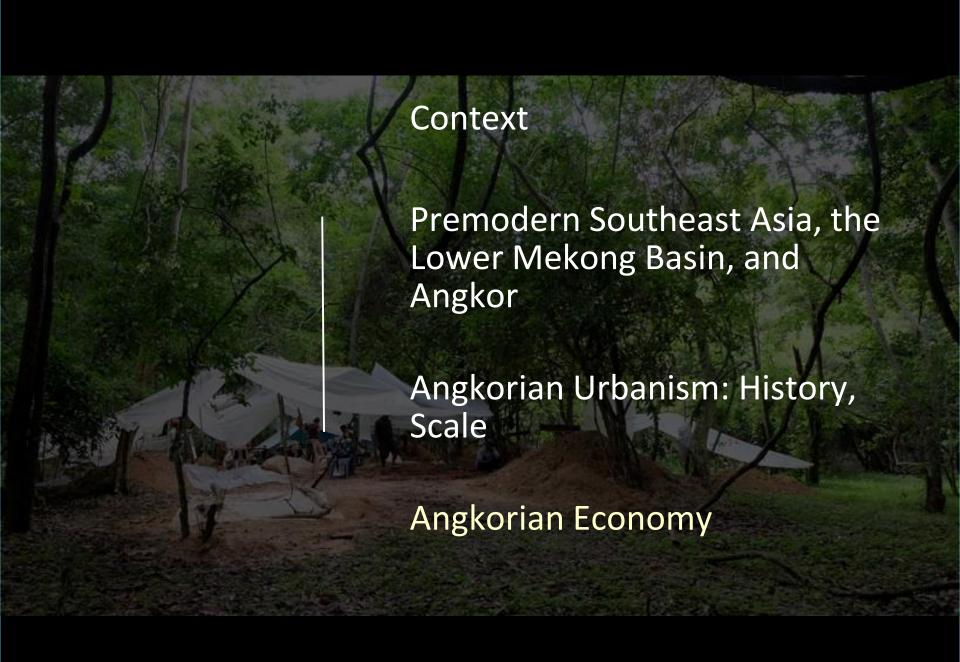
Angkor Wat as State Temple



Damian Evans / KALC

Angkor Wat as Urban Living Space

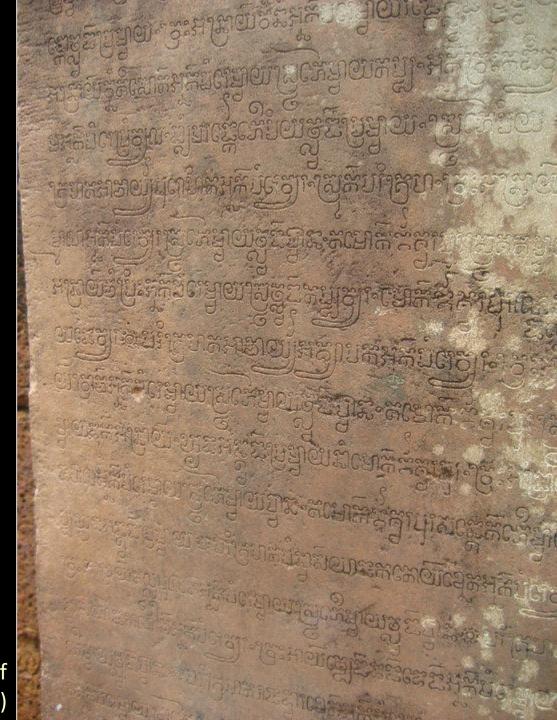




Internal documentary evidence

c. 1300 pre-Angkorian & Angkorian inscriptions

Archaeological research

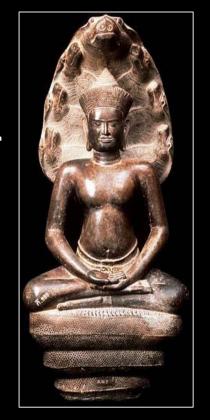


Banteay Srei inscription (courtesy of Charmaine Wong)





Religion & State in Urban Angkor

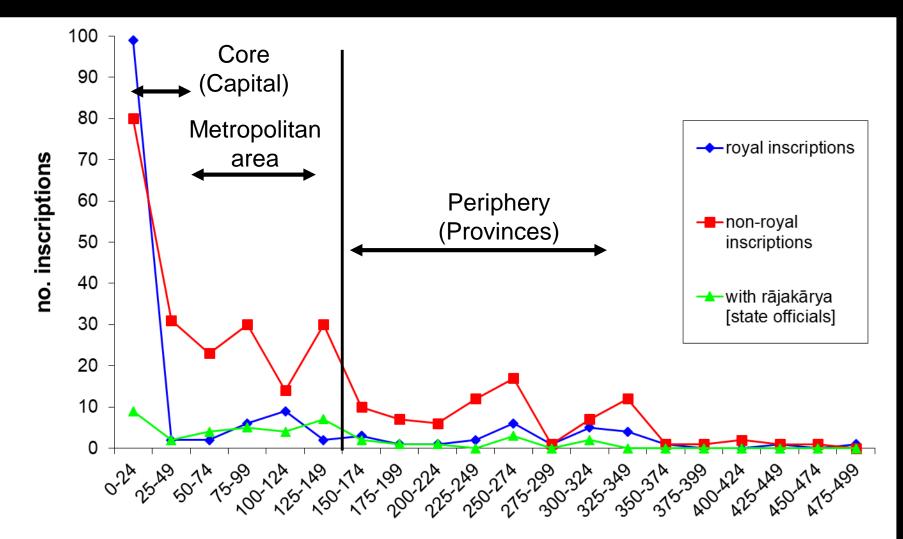




Clockwise from left: Vishnu, Harihara, Buddha, Siva lingam & yoni



Limited centralized control



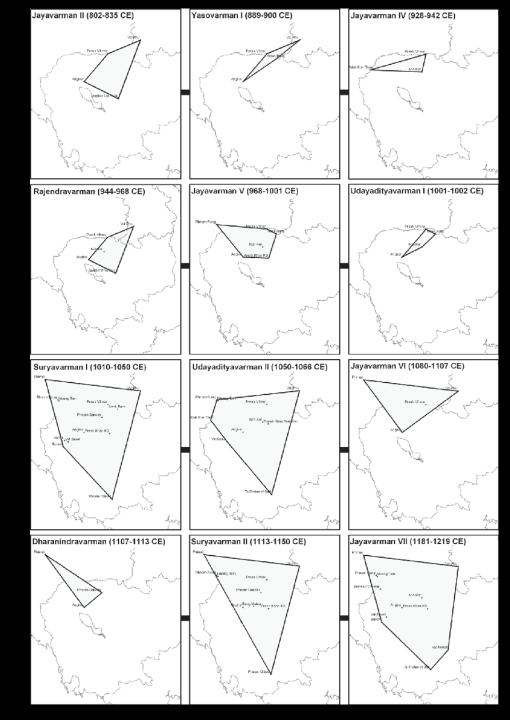
Distance from Angkor, km

(from Stark 2019, with help from Eileen Lustig)

Geographic regions under Angkorian rulers (c. 802 – 1219 CE)

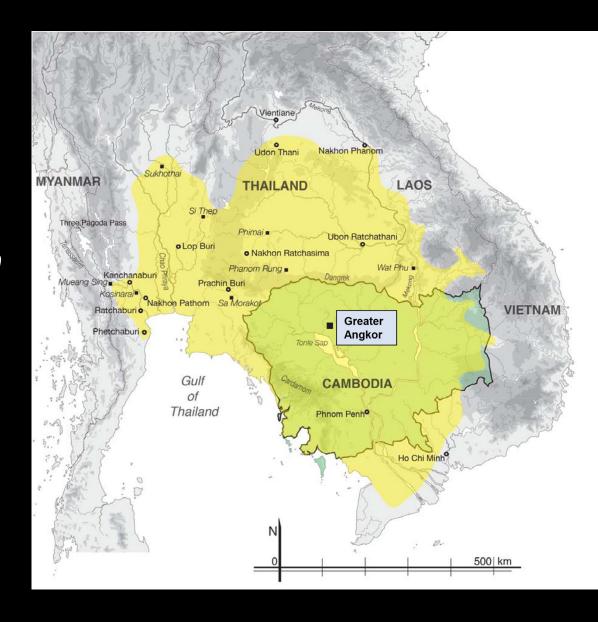
Proximity to roads and rivers
Temple prominence

Temple prominence (location, size)



Hendrickson 2012, Fig 6.3

Prominence of provinces viṣaya or pramān



The inferred extent of the Angkor Empire during the 12th century (modified from (Multzer o'Naghten 2014: Map 2).

Angkorian Economy

Agrarian foundations
Craft production



Shiva Ardhanarishvara, 10thC, repatriated 2021 (now at National Museum of Cambodia)

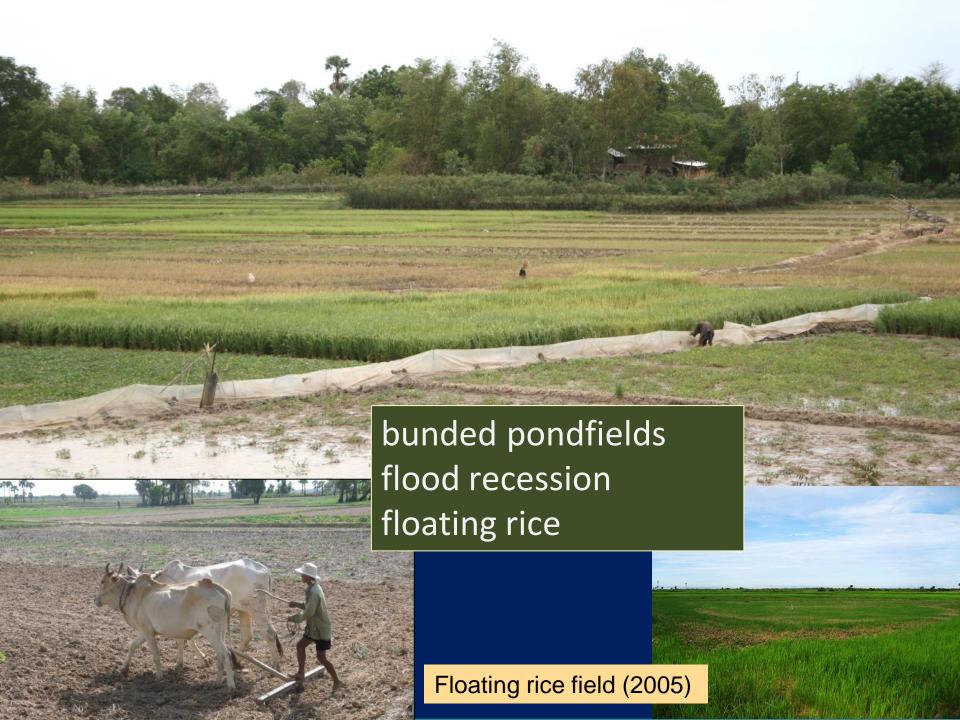
Agrarian foundations

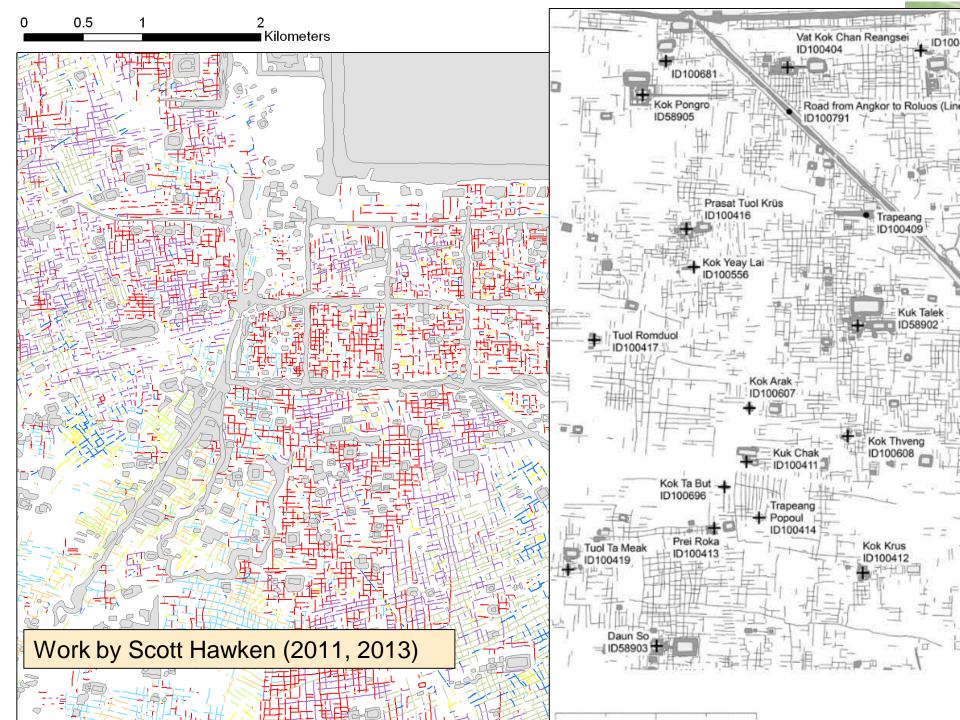
rice as primary domesticate and most important taxation commodity

Tonle Sap hydrology ideal for complex agrarian ecology

90% of 20th century Cambodian agriculture based on rainfed farming

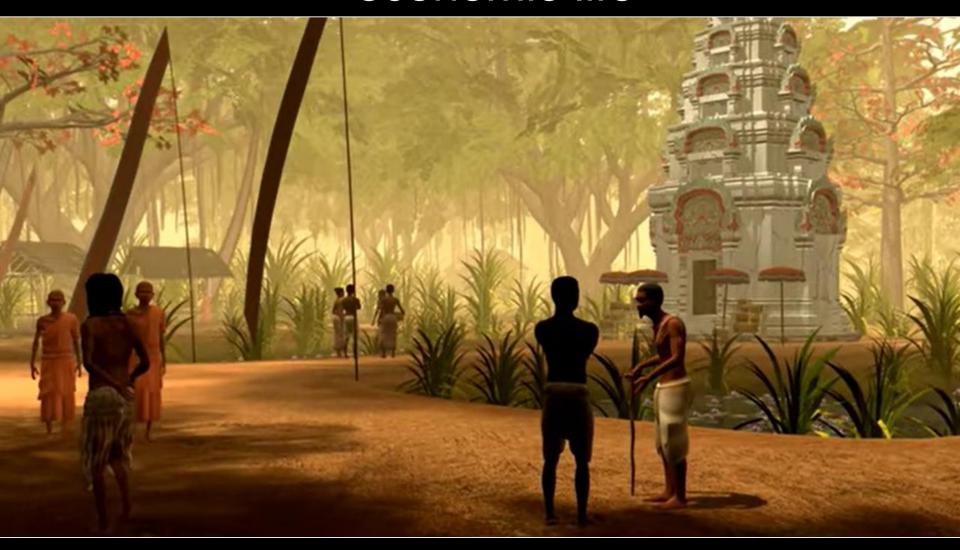




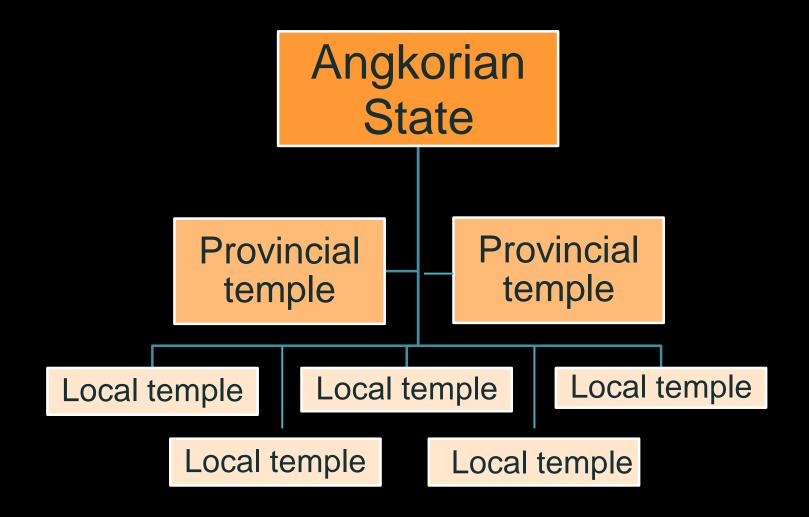




Temple as center of economic life



Tom Chandler and Micheal Lim, Monash University, 2011



Temple economy

TAXES











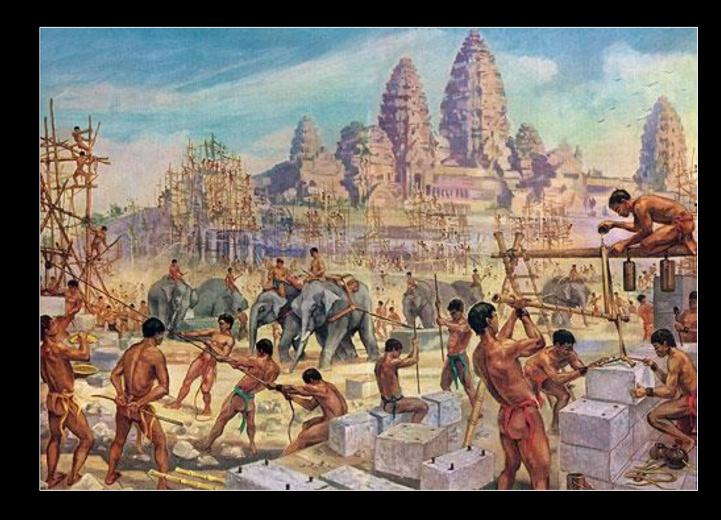


Non-monetized economy





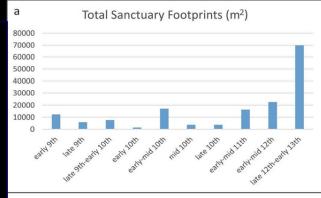


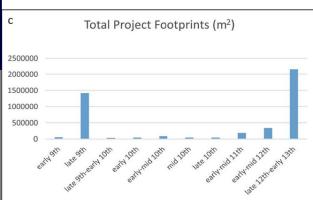


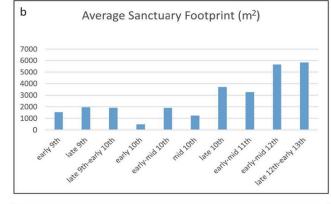


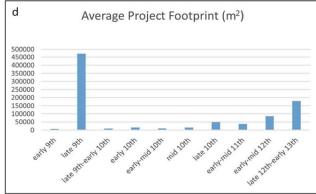
Corvée labor

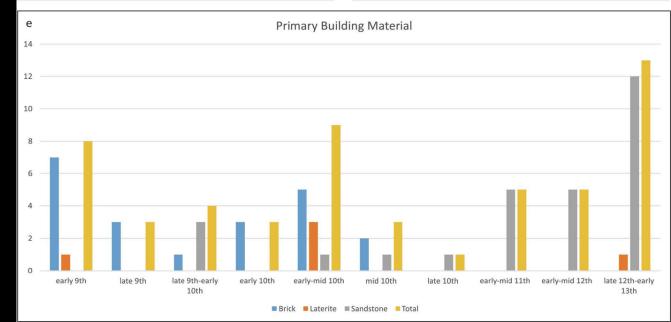
Labor Investment in Civic Architecture













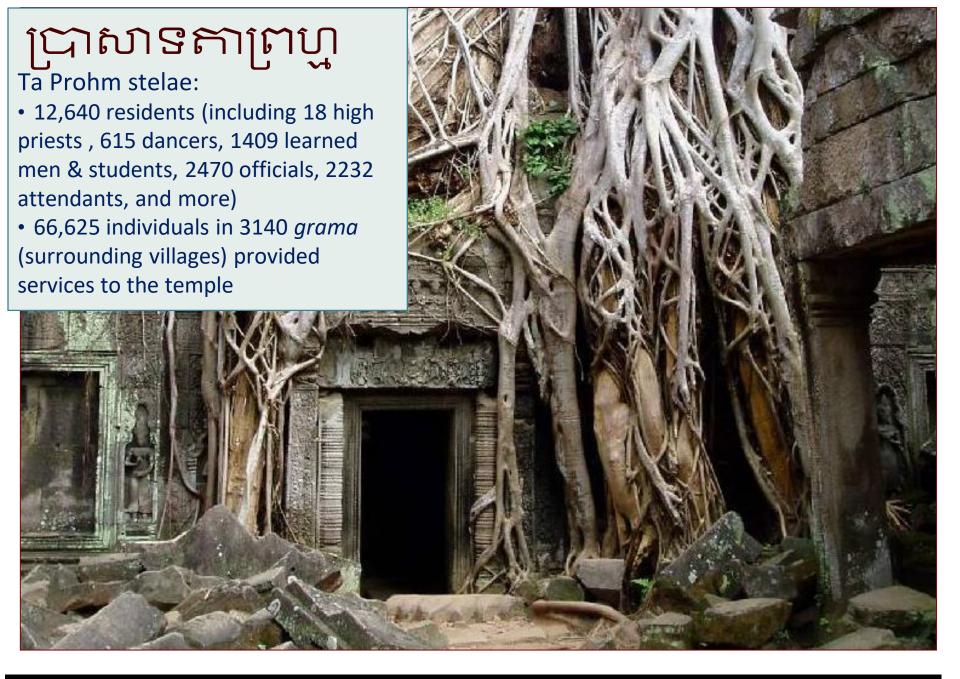
State Architecture: Ta Prohm Temple (est. 1182 CE)



Grid Patterns Linear mounds Mound-Pond Grid Pattern 1 2? Mound-Pond Grid Pattern 2 Multi-shape Mound-Pond (garden?) Pattern

West Wall,

GAP excavations 2012, 2014 (Carter et al. 2018)



Materials for Empire



Stoneware ceramics



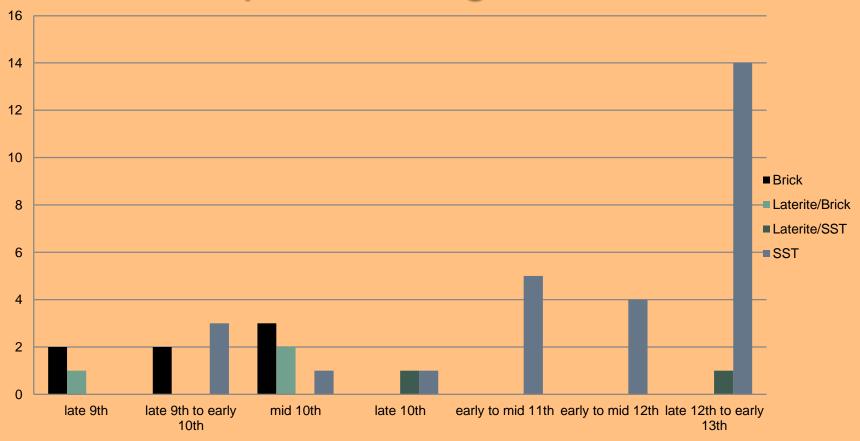


Architectural iron

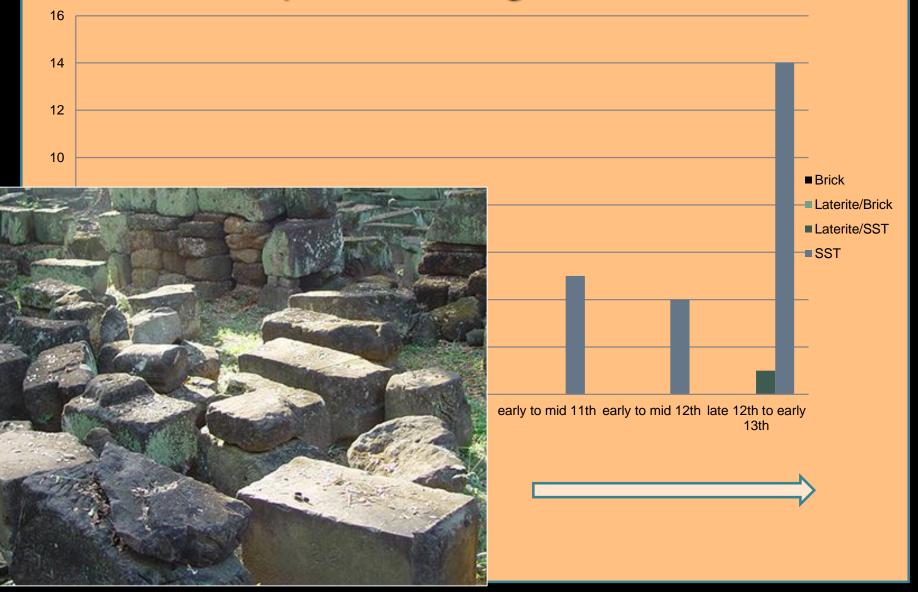
State Temples as Public Works



Temple Building Material



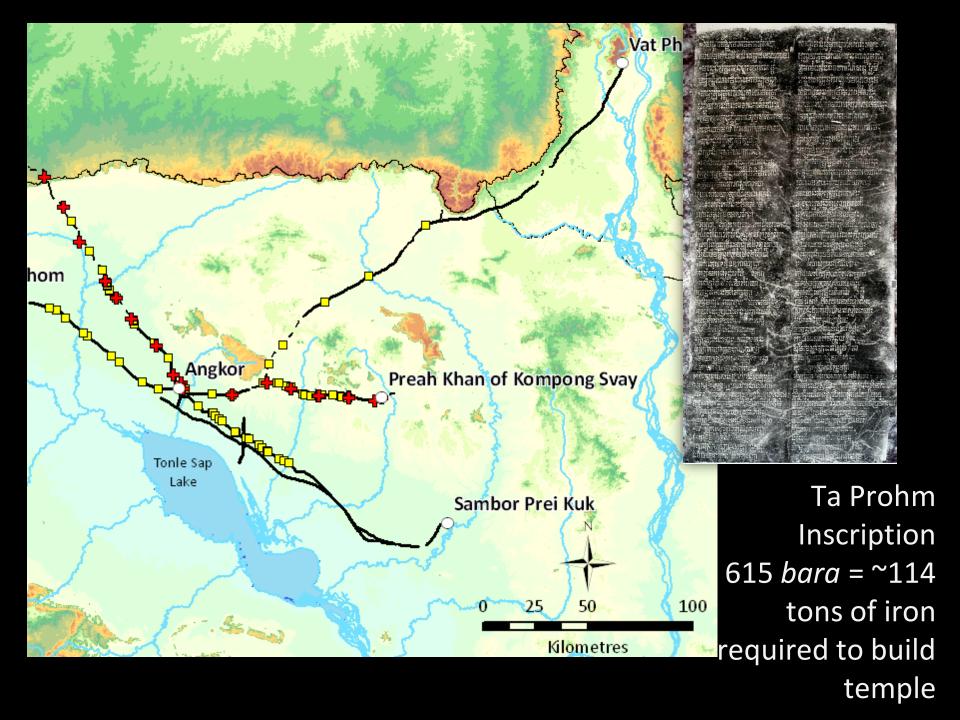
Temple Building Material

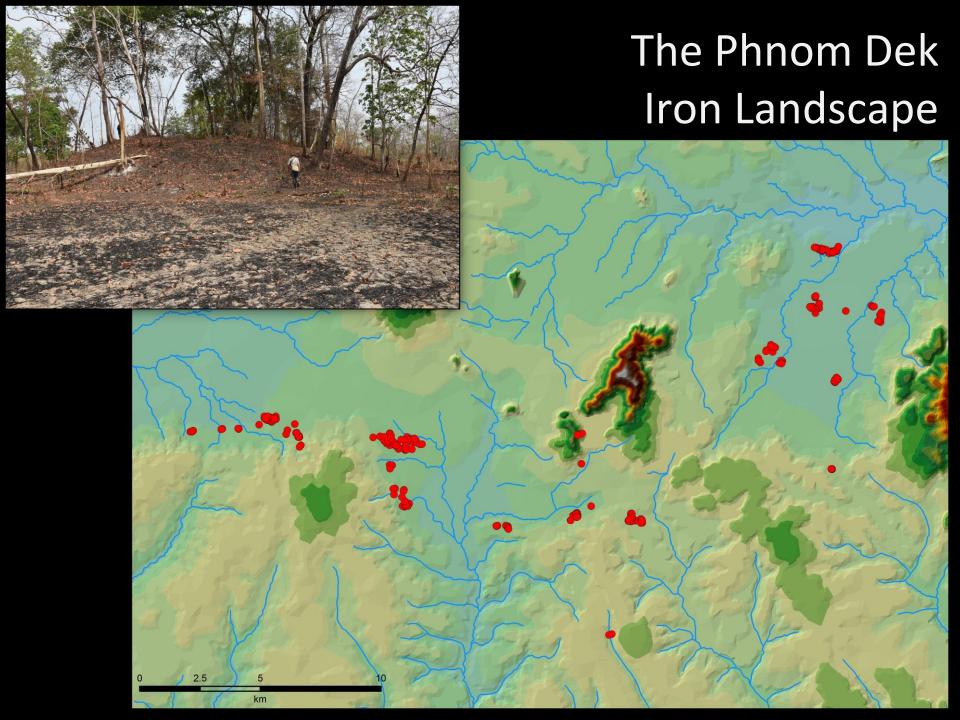




Prasat Hin Phanom Rung Buriram



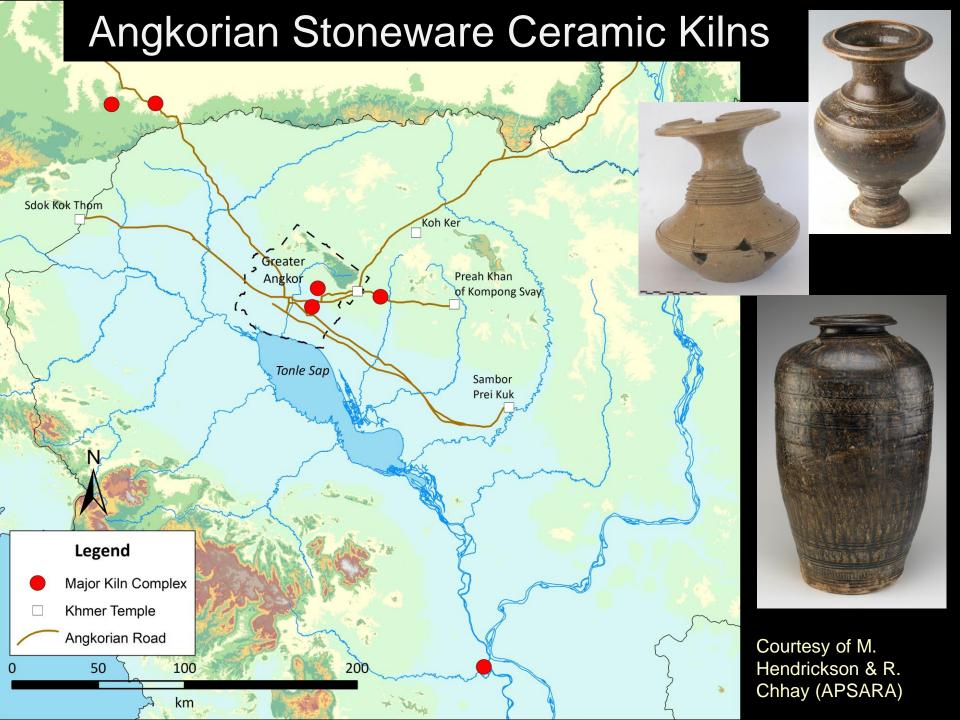




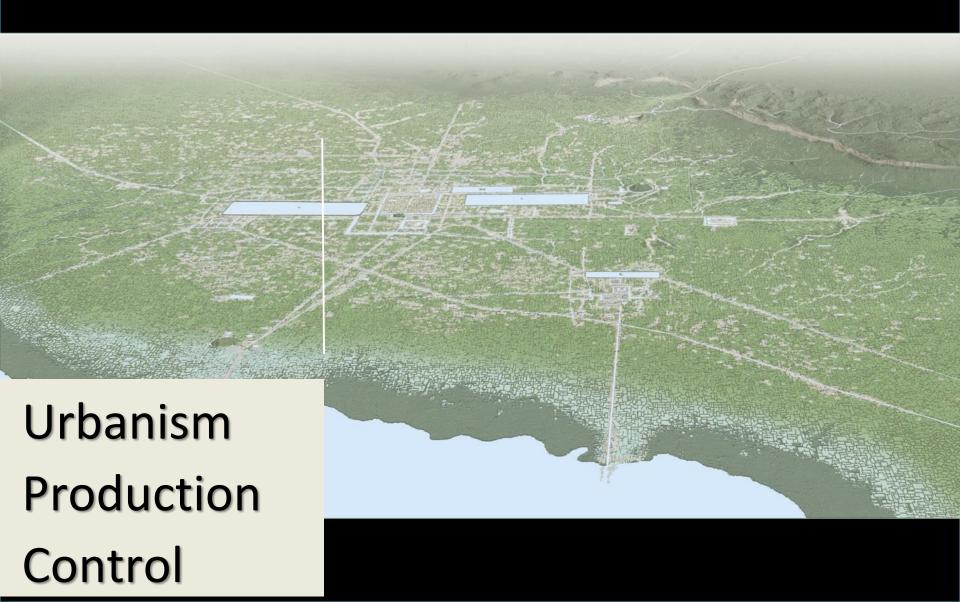




Repatriated Khmer stoneware ceramics from the Smithsonian Institution 2018



The Political Economy of Angkorian Urbanism



Acknowledgments

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