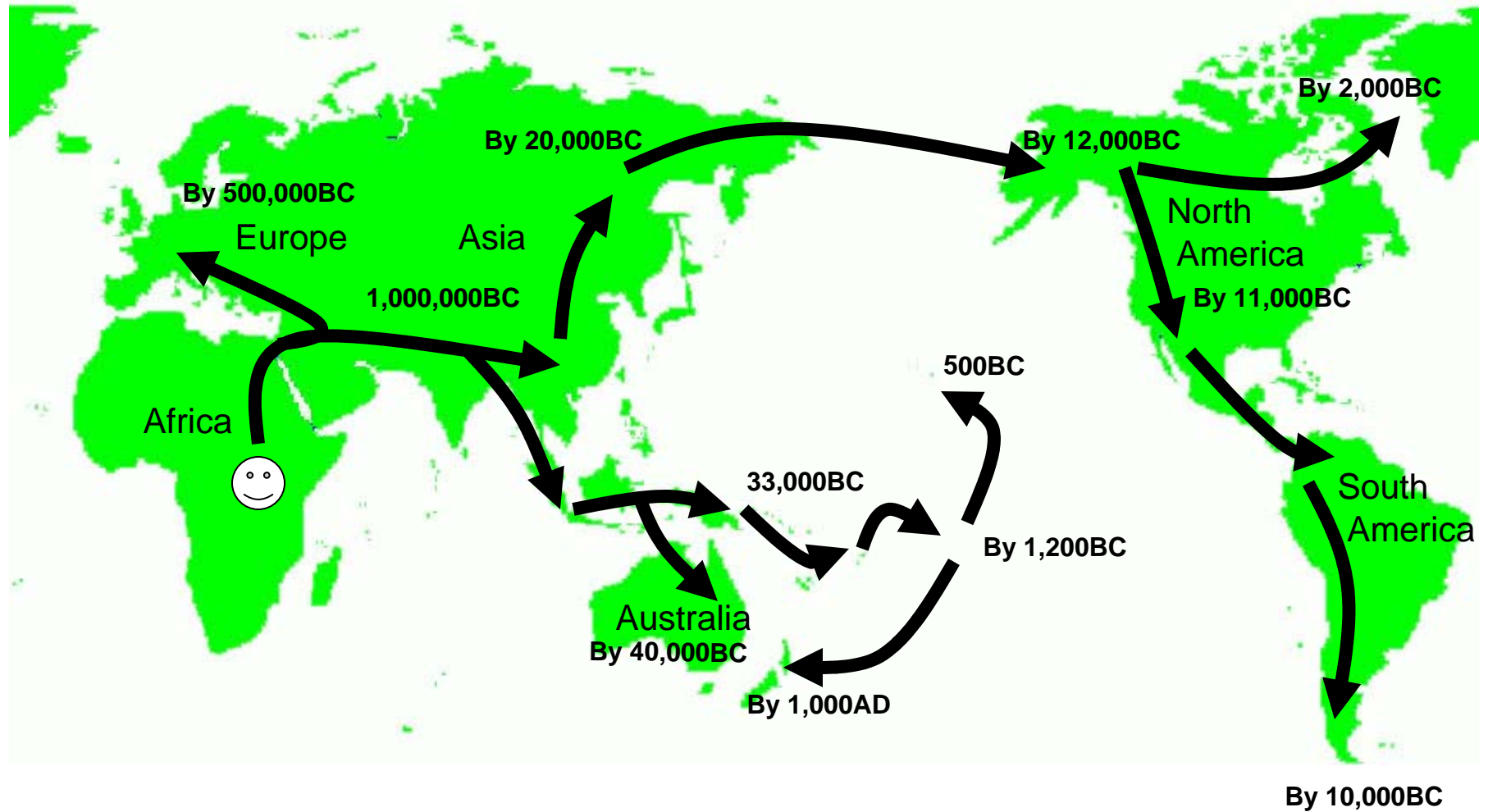


Guns, Germs and Steel

SOME BIG QUESTIONS

- Why are cultures different?
- Why was there variation in the use of plants and technologies in the past?
- How are we all related?

MAJOR MOVEMENTS OF PEOPLE



FARMING FAMILIES

- Early domesticated plants.

	Large seeded grasses	Large seeded legumes	Starchy root plants
Mediterranean West Asia	33	5	10
East Asia	6	2	5
Sub-Saharan Africa	4	2	2
Americas	11	4	10
Indo-Pacific Islands	0	1	2

FARMING FAMILIES

- Early domesticated animals.

	Herd/draft animals	Large birds	Other
Mediterranean West Asia	Cattle, Sheep, Camel, Horse Goat, Donkey Reindeer	Pigeon Geese Quail?	Dog, Rat Cat, Rabbit
East Asia	Pig, Elephant Water Buffalo	Chicken, Duck Peacock	Silk worm Rat, Dog
Sub-Saharan Africa	None	Guinea fowl	
Americas	Llama	Turkey	Guinea pig
Indo-Pacific Islands	None	None	

FARMING FAMILIES

- Early technological civilizations.



FROM FOOD TO GERMS

- Domesticated animals
- Human disease resistance
- Differential mortality when cultures collide

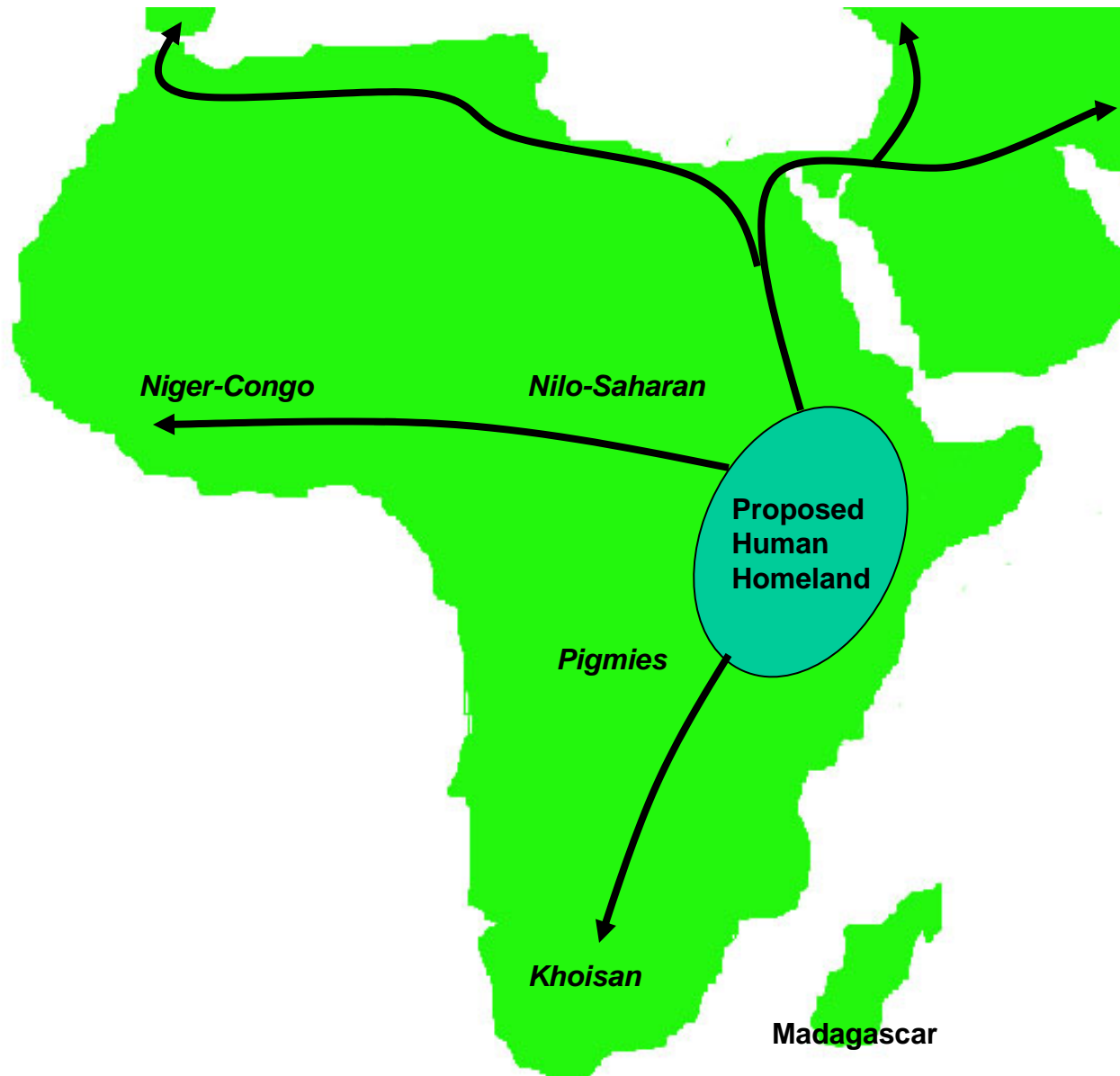
FROM FOOD TO STEEL

- Farming and technologies
- Cultural resistance changing environments
- Differential fertility when cultures collide

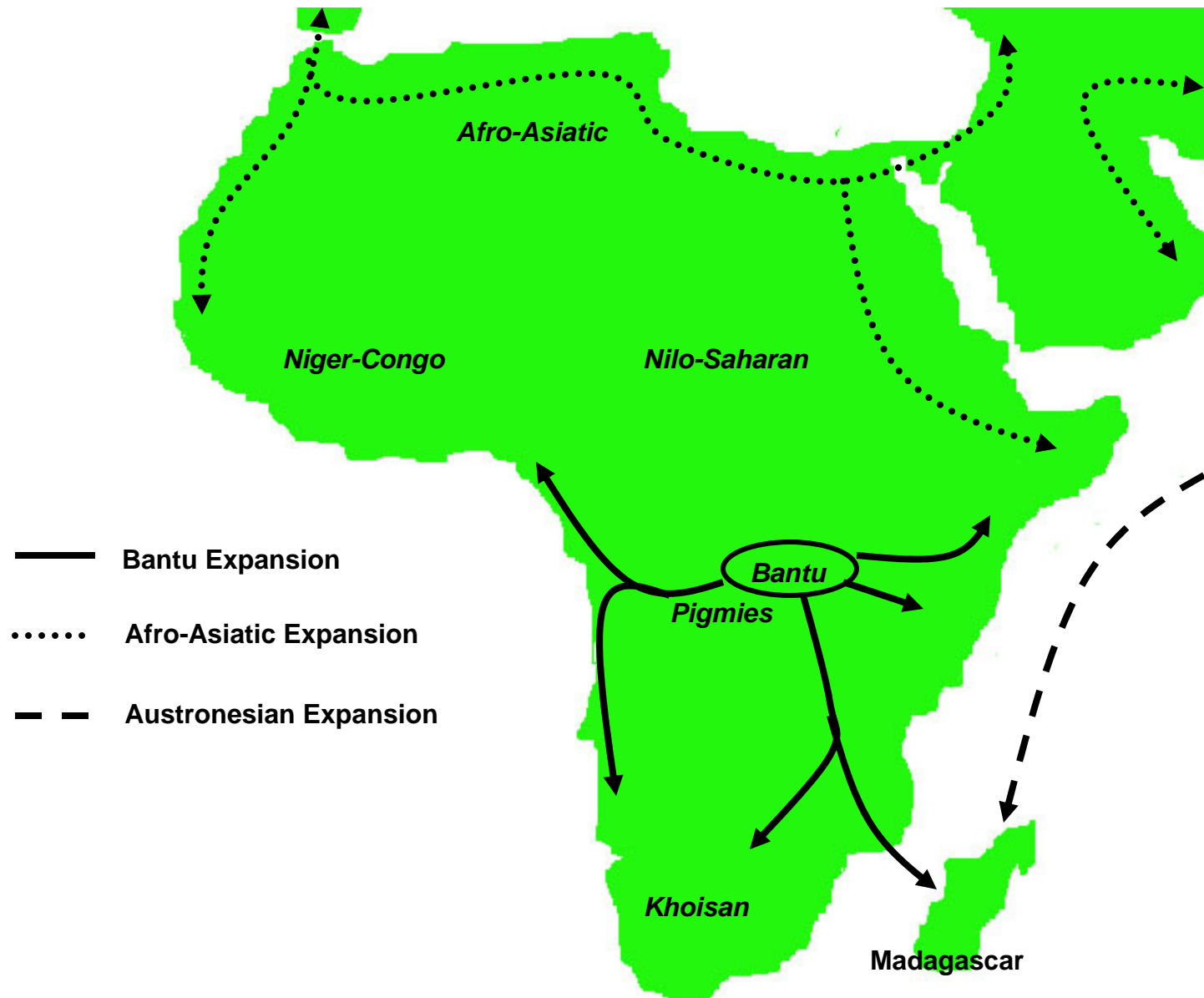
FROM FOOD TO GUNS

- Farming surpluses
- I'm from the Government. I'm here to help you!
- Differential dominance when cultures collide

MIGRATIONS IN AFRICA (Ancient)



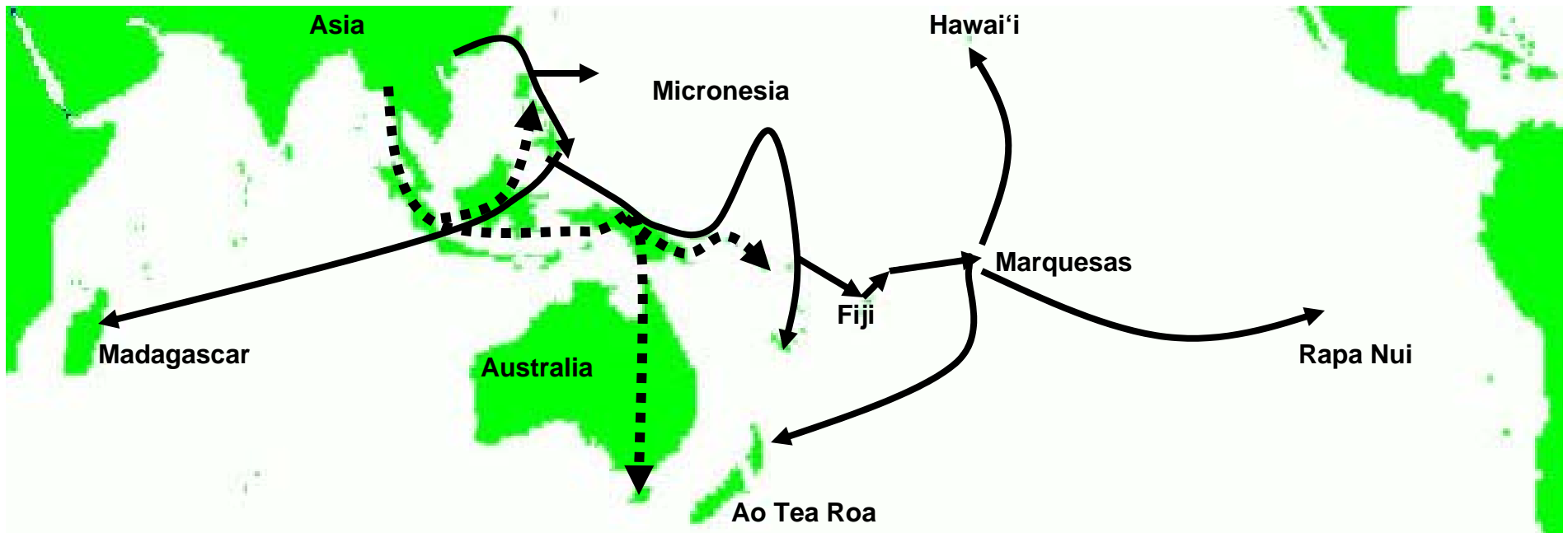
MIGRATIONS IN AFRICA (“Recent”)



MIGRATIONS IN ASIA



MIGRATIONS IN THE INDOPACIFIC



Major Known
Colonization Waves

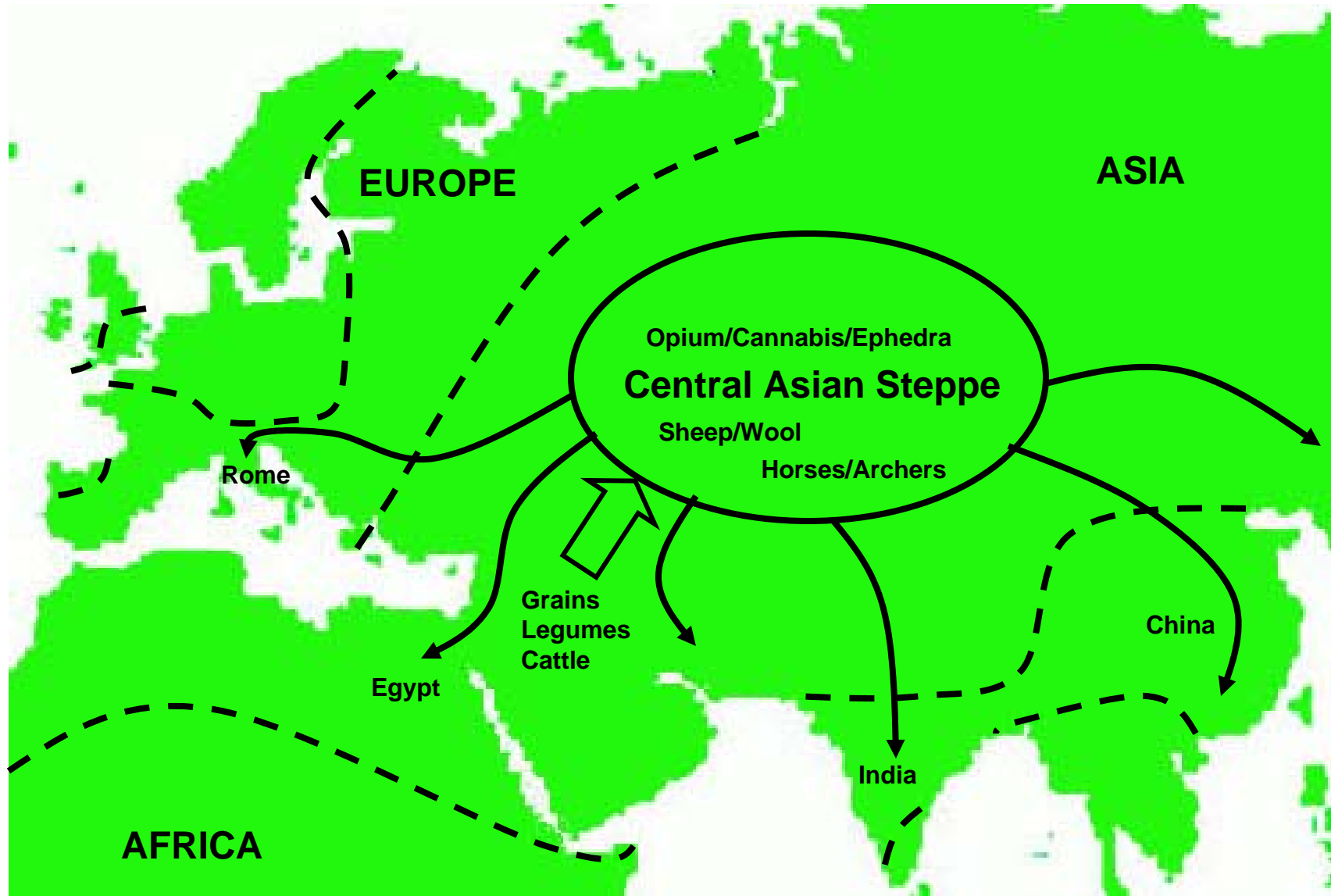
..... Non-Austronesian (Papuan) 50-20,000 BP

— Austronesian (including Lapita & Polynesian) 5-1,000 BP

MIGRATIONS IN THE AMERICAS



MIGRATIONS IN EUROPE



GLOBAL COLONIZATION 1500+

- More recent waves of human migrations
- Represent movement of
 - People
 - Plants
 - Animals
 - Diseases
 - Ideas
- Never before have these elements been so evenly distributed so rapidly.....
- Lead to the current globalization events

PLANTS AND HUMAN HISTORY

- Cultural survival has been linked to interactions with plants and animals
- Cultural distributions are the results of both ancient and modern movements of people
- Traditional knowledge of plants has been maximized by cultures given limitations of local environments

STUDY GUIDE QUESTIONS

- 1. Where do scientists think that the first humans came from?**
- 2. Among the most important early domesticated plants are:**
- 3. Among the most important early domesticated animals are:**
- 4. Many human diseases originate from:**
- 5. Cultures with more domesticated plants and animals tend to:**
- 6. Food surpluses allowed for the development of:**
- 7. In most parts of the world the original people were _____ long ago by other people.**