**KEY CONCEPT 3.1: Expansion & Intensification of Communication & Exchange Networks**

**Importance/Use of Trade Routes from 2.3 Grew Exponentially with Massive Effects on the Earth**

**Eastern Hemisphere Trade Routes:**
- Eurasian
- Silk Road
- Trans Saharan
- Indian Ocean
- Mediterranean

**New Luxury Goods Spread Along These Routes:**
- Silk
- Cotton
- Porcelain
- Spices
- Gems
- Slaves
- Exotic Animals

**New Commercial Tech. Aided This Spread:**
- Caravanserai (Roadside Inns)
- Camel Saddles (Saddles for Camels)

**New Navigational Tech. Aided This Spread:**
- Compass (from China)
- Astrolabe (from Hellenistic world)
- Larger Ship Designs

**New Economic Tools Facilitated This Spread:**
- Bills of Exchange
- Credit/Checks/Banks
- Government Coins/Paper Money
- Trading Organizations (Hanseatic League)
- Government Commercial Infrastructure

*All of this is expedited by the spread of large empires*

**New Crops in New Areas**
- Bananas
- New Rice
- To Africa
- To East Asia

**Disease Along with Goods, Increased Trade Brings Disease. Ex: The Black Death**

**Trade**
- Big Four Trade Routes…
  - Silk Road-Trans Saharan-Mediterranean-Indian Ocean
  -…Led to Powerful New Trading Cities
    - Novgorod, Timbuktu, Swahili, Huangzhou, Calicut, Baghdad, Melaka, Venice, (Tenochtitlan, Cahokia)
  - (Notice the location of these cities along the trade routes. **)
  - (The two American Cities are built along new American routes. *)

**New Environmental Knowledge & Technological Adaptation**
- Viking Longships
- Arab/berber camels
- Central Asian Horses

**Migrations**
- Bantu Migrations
- Polynesian Migrations

**Languages**
- Bantu (Swahili)
- Turkic
- Arabic

**Islam**
- Based on revelations to Muhammad

  - Think of it as Judaism 3.0
  - Mix of Judaism, Christianity, & Zoroastrianism with the Arab people of Arabian Peninsula

  - Spread: Militarily & via Trade

**Diaspora**
- People living away from their Homelands
  - Muslims in the Indian Ocean
  - Chinese in Southeast Asia
  - Jews in the Mediterranean

**Inter-Regional Travellers**
- Maro Polo
- Ibn Battuta
- Xuanzang

**Cross-Cultural Diffusion**
- Neoconfucianism, Hinduism, Buddhism
  - Southeast Asia
  - Islam
  - Southeast Asia & Subsaharan Africa
  - Islamic Empires & Western Europe

- Printing & Gunpowder from East Asia
  - Islamic Empires & Western Europe

**Greek Science & Phil. (Back to Europe)**