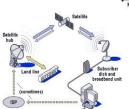
Geographic information may be acquired from a variety of sources. Geographic information supports the process of inquiry into the nature of countries, cities, and

environment. Using a variety of sources, supports the process of geographic inquiry. (WG.1a)

#### A variety of resources include -

- ♦ GIS (Geographic Information System)
- ♦ Field work
- ♦ Satellite images
- ♦ Photographs
- ♦ Maps, globes
- ♦ Databases
- ♦ Primary sources

Diagrams



Mental maps are based on objective and knowledge and subjective perceptions. People develop and refine their mental maps through both personal experience and learning. Mental maps are indicators of how well people know the spatial characteristics of certain places. (WG.1c)
Use of mental maps

- Carry out daily activities (route to school, shopping)
- Give directions to others
- Understand world events

#### Ways mental maps can be developed and refined

- \* Comparing sketch maps to maps in atlases or other resources
- \* Describing the location of places in terms of reference points examples include equator, prime meridian
- Describing the location of places in terms of geographic features and land forms examples include west of the Mississippi River, north of the Gulf of Mexico
- Describing the location of places in terms of human characteristics of place (language, housing, dress, recreations, customs and traditions.)

# Latitude and longitude define absolute location. Relative location describes the spatial relationships between and among places. Areas can be represented using a variety of scales. (WG.1b)

#### Concepts of location -

- ♦ Scale
- ♦ Absolute location latitude and longitude
- ♦ Relative location
- ♦ Orientation
- ♦ Map distortion
- ♦ Map projections
  - Mercator
  - Robinson
  - Polar





## Standard ways that maps show information (WG.1d)

- ⇒ Symbols
- ⇒ Color
- ⇒ Lines⇒ Boundaries
- ⇒ Contours



#### Types of thematic maps

- Population (distribution and density)
- \* Economic activity
- \* Resources
- Language
- Ethnicity
- Climate
- Precipitation

### Perspectives of place names -

- \* Arabian Gulf vs. Persian Gulf
- \* Sea of Japan vs. East Sea
- \* Middle East vs. North Africa and Southwest Asia

## Maps and other visual images reflect changes over time. (WG.1e)

#### Knowledge

- Map of Columbus's time
- Map of the world today
- GIS

#### Place names

- Formosa
- Taiwan
- Republic of China
- Palestine
- Israel
- West Bank
- Gaza

#### Boundaries

- Africa: in 1914; in the 1990s
- Europe: before World War II; after World War II; since 1990
- Russian and the former Soviet Union
- Middle East: before 1948; after 1967

#### Disputed areas

- Korea
- Western Sahara
- Former Yugoslavia
- Kashmir

#### Weather phenomena - (WG.2a)

- Monsoons: South and Southeast Asia
- Typhoons: Pacific Ocean
- Hurricanes: Atlantic Ocean
- Tornadoes: United States

#### Climate has an effect on

- \* Crops
- Clothing
- \* Housing
- \* Natural hazards

# Physical and ecological processes - (WG.2b)

- $\Rightarrow$  Earthquakes
- $\Rightarrow$  Floods
- ⇒ Volcanic eruptions
- ⇒ Erosion
- ⇒ Deposition

#### B

- Temperature
- Precipitation
- Seasons (hot/cold, wet/dry)

Climate characteristics (WG.2a)

#### Climate elements

- \* Influence of latitude
- \* Influence of winds
- \* Influence of elevation
- Proximity to waterInfluence of ocean currents

#### World climatic regions

- Low latitudes (tropical wet, tropical wet and dry, arid, semiarid, highland)
- Middle latitudes (semiarid, arid, Mediterranean [dry summer subtropical], humid continental, marine west coast, highland)
- High latitudes (subarctic, tundra, icecap)

#### Vegetation regions

- \* Rain forest
- \* Savanna
- Desert
- \* Steppe

## Influence of technology on peoples ability to adapt and modify their physical environment. (WG.2c)

- Agriculture—fertilizers, mechanization
- Energy use—fossil fuels, nuclear
- Transportation—road building, railways
- Automobiles—parking lots, suburbs
- Airplanes—airport expansion, noise

## Humans both influence and are influenced by their environment. (WG.2b)

### **♦** Water diversion/management

- Aral Sea
- Colorado River
- Aswan High Dam
- Canals
- Reservoirs
- Irrigation

#### Landscape changes

- Agricultural terracing in China, Southeast Asia
- Polder in The Netherlands
- Deforestation in Nepal, Brazil, Malaysia
- Desertification in Africa, Asia

#### **♦** Environmental changes

- Acid rain (e.g., forests in Germany, Scandinavia, China, Eastern North America)
- Pollution (e.g., in Mexico city, Chernobyl; oil spills)

#### Environmental impact on humans - (WG.2c)

- Settlement patterns
- Housing materials
- Agricultural activity
- Types of recreation
- Transportation patterns

### | Cultural difference and similarities can link or divide | regions. (WG.3c)

#### Language

- Arab world: Arabic
- Hispanic America: Spanish
- Brazil: Portuguese
- Canada: French and English
- Switzerland: Multiple languages
- English: International language

#### Ethnic heritage

- Former Yugoslavia: Serbs, Croats, Bosnians, Albanians
- Burundi and Rwanda: Hutus and Tutsis
- United States, Switzerland: Multiple ethnicities united in one country
- Korea, Japan: Predominantly single ethnicity
- Cyprus: Greeks and Turks

#### Religion as a unifying force

- Hinduism
- Buddhism
- Judaism
- Christianity
- Islam

#### Religion as a divisive force

- Conflicts between Hindus and Muslims in Pakistan and India
- Conflicts between Catholics and Protestants in Northern Ireland
- Jews, Christians, and Muslims all claiming Jerusalem as their religious heritage site
- Conflicts between Sunni and Shi'a

#### Regional landscapes are influenced by climate and underlying geology. (WG.3b)

- ♦ Climate affects types of natural vegetation.
- Landforms affect transportation, population distribution, and the locations of cities.

#### Cultural characteristics Architectural structures

- Religious buildings mosques, churches, synagogues, temples, pagodas
- \* Dwellings tiled roofs in Mediterranean, chalets in Switzerland, thatched roofs in Pacific Islands, tents and yurts in Central and Southwest Asia, castles in Europe

### Statues and monuments of local, national, or global significance -

- Taj Mahal (India)
- Kaaba (Mecca)
- Western Wall (Jerusalem)
- Dome of the Rock (Jerusalem)
- Church of the Holy Sepulcher (Jerusalem)
- Pyramids (Egypt)
- Kremlin (Moscow)
- Eiffel Tower (Paris)
- Virginia State Capital Building
- Washington Monument
- White House
- Lincoln Memorial
- Statue of Liberty

### Regions are used to simplify study and understanding of the world. (WG.3a)

#### Physical regions

- Sahara
- Taiga
- Rain forest
- Great Plains
- Low Countries

### Cultural Regions

- Language Latin America, Francophone world
- Ethnic Chinatowns, Kurdistan
- Religion Islam, Buddhism
- Economic Wheat Belts, European Union (EU)
- Political North Atlantic Treaty Organization (NATO), African Union (AU)

### Regional labels reflecting changes in perceptions

- Middle East
- Sun Belt
- Rust Belt



The development of region is influenced by many factors, including physical, economic and cultural characteristics. The interaction of humans with their environment affects the development of a region. Different criteria may be used to determine a country's relative importance. (WG.4)

#### **Human interaction with environment**

- \* Amazon Basin, Nepal, Malaysia
- Acid rain: Black Forest
- Decreased soil fertility: Aswan High Dam

#### Criteria for determining relative importance

- \* GDP (Gross Domestic Product)
- Land size
- Population size
- \* Resources

#### Impact of physical elements

Example: Major bodies of water

- \* Rio Grande: Forms boundary
- \* Ob River: flows northward into Arctic Ocean
- \* Zambezi River: Provides water power
- \* Ganges and Brahmaputra rivers: are flood hazards Example: Mountains
- \* Rocky Mountains: Create rain shadows on leeward slopes
- \* Himalayas: Block moisture, creating steppes and deserts in Central Asia





Population distribution is described according to location and density. (WG.5)

#### Factors that influence population distribution

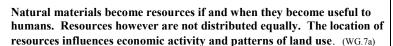
- ♦ Natural resources oil, arable land, water
- ♦ Climate hot/cold; wet/dry
- ♦ Economic development
- ♦ Government policy
- ♦ Rural/urban settlement patterns
- ♦ Capital resources transportation, technology
- ♦ Conflicts refugees

#### Characteristics of human populations

- ♦ Birth and death rates (war, disease, migration)
- ♦ Age distribution
- ♦ Male/female distribution
- ♦ Life expectancy
- ♦ Infant mortality rate
- ♦ Urban/rural distribution
- ♦ GDP
- Ethnicities
- ♦ Language
- ♦ Religion
- ♦ Education

#### Factors that influence population growth rates

- Modern medicine and hygiene
- ♦ Education
- ♦ Industrialization and urbanization
- ♦ Economic development
- ♦ Government policy
- ♦ Role of women in society



#### Changes in use of energy resources and technology over time

- Wood deforestation
- \* Coal pollution, mining problems, competition with oil and gas
- \* Petroleum transportation, environmental considerations
- Nuclear contamination, waste
- \* Solar, wind coast, aesthetics

#### Natural resources

- Renewable: soil, water, forests
- Nonrenewable: fossil fuels (oil, coal, and natural gas) and metals (gold, iron, copper, and bauxite)

#### **Human Resources**

- Level of education
- Skilled and unskilled laborers
- Entrepreneurial and managerial abilities

#### **Capital Resources**

- Availability of money for investment
- Level of infrastructure
- Availability and use of tools, machines, and technologies

#### Levels of economic activity

- \* Primary: dealing directly with resources (fishing, farming, forestry, and mining)
- Secondary: manufacturing and processing (steel mills, automobile assembly, and sawmills
- Tertiary: services (transportation, retail trade, and information technology services

Migration occurs because of social, political and environmental factors. Migrations have influenced cultural landscapers. Modern transportation and communication encourage higher levels of cultural interaction worldwide. (WG.6)

#### **Push factors**

- ⇒ Overpopulation
- ⇒ Religious persecution
- ⇒ Lack of job opportunities
- ⇒ Agricultural decline
- ⇒ Conflict
- ⇒ Political persecution
- ⇒ Natural hazards droughts, floods, famines, volcanic eruptions
- ⇒ Limits on personal freedom
- ⇒ Environmental degradation

#### Pull factors

- ♦ Religion
- Economic opportunity
- ♦ Land availability
- ♦ Political freedom
- Ethnic and family ties
- Arable land

#### Impact of migrations on regions

- Language
- Religion and religious freedom
- Customs and traditions
- \* Cultural landscape

#### Evidence of cultural interaction

- ♦ Diffusion of U.S. culture to other regions
- ♦ Popularization of other cultural traditions in the U.S.

#### Effects of unequal distribution of resources (WG.7a)

- Interdependence of nations, trading in goods, services, and capital resources
- Uneven economic development
- Energy producers and consumers
- Imperialism
- Conflict over control of resources

#### Patterns of land use

- \* Economic activities that require extensive areas of land (agriculture) vs. those that require a limited area (manufacturing)
- Land uses that are compatible with each other (open spaces and residential) vs. land uses that are not compatible (landfills and residential)

The use of a resource depends on a nation's culture, values, access to technology, and governmental priorities as they change over time. (WG.7b)

#### Social and economic priorities

- ♦ Economic development priorities
- Environmental conservation priorities
- Priorities of indigenous minorities

#### Technologies that have created demand for particular resources

- $\Diamond$  Steam engine: demand for coal
- Internal combustion engine (cars/trucks): demand for gas/oil
- ♦ Computer chips: demand for skilled labor

#### Costs

- ♦ Resource depletion
- ♦ Environmental degradation
- ♦ Health problems

#### Benefits

- ♦ Production of goods and services
- I ♦ Employment opportunities
- ♦ Development of technologies

Levels of economic development vary from country to country and from place to place within countries. Many different criteria are used to assess the standard of living and quality of life. Availability of resources and technology influence economic development and quality of life. (WG.8)

Differences between developed and developing nations

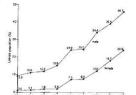
- \* Access to natural resources
- \* Access to capital resources (investment in technology and infrastructure)
- \* Number and skills of human resources
- \* Levels of economic development
- \* Standards of living and quality of life
- \* Relationships between economic development and quality of life

#### Indicators of economic development

- Urban-rural ratio
- Labor force characteristics (primary, secondary, tertiary sectors)
- GDP per capita
- Educational achievement

#### Indicators of standards of living and quality of life

- \* Population growth rate (natural increase)
- \* Population age distribution
- \* Literacy rate
- Life expectancy
- \* Infant mortality rate
- \* Percentage of urban population



# Economic, social, and therefore, spatial relationships change over time. Improvements in transportation and communication have promoted globalization. (WG.9b)

#### Changes over time -

- Industrial labor system (cottage industry, factory, office, telecommunication)
- \* Migration from rural to urban areas
- Growth of trade alliances
- \* Growth of service (tertiary) industries
- \* Growth of financial service networks and international banks
- \* Internalization of product assembly (vehicles, electronic equipment)
- \* Technology that allows instant communication among people in different countries
- Modern transportation networks that allow rapid and efficient exchange of goods and materials (Federal Express, United Parcel Service - UPS, U.S. Postal Service)
- \* Widespread marketing of products (Fuji film, Nike, United Colors of Benetton)

# SATES POSTO

### As a global society, the world is increasingly interdependent. Economic interdependence fosters the formation of economic unions. $(\mathrm{WG.9c})$

Economic interdependence can be depicted through trade, resource or transportation maps.

#### Examples of economic unions:

- ♦ EU: European Union
- ♦ NAFTA: North American Free Trade Agreement
- ♦ ASEAN: Association of Southeast Asian Nations
- OPEC: Organization of Petroleum Exporting Countries



### OPEC Logo

### Resources are not equally distributed. No country has all the resources it needs to survive and grow. (WG.9a)

#### Factors that influence economic activity

- Access to human, natural, and capital resources, such as
  - skills of the work force
  - natural resources
  - new technologies
  - transportation and communication networks
  - investment capital
- Location and ability to exchange goods
  - landlocked countries
  - coastal and island countries
  - proximity to shipping lanes
  - access to communication networks
- Membership in political and economic alliances that provide access to markets (e.g., European Union [EU], North American Free Trade Agreement [NAFTA]

Comparative advantage: the ability of countries to produce goods and services at lower relative costs than other countries, resulting in exports of goods and services.

#### Effects of unequal distribution of resources

- Specialization in goods and services that a country can market for a profit
- Exchange of goods and services (exporting what a country can market for profit; importing what a country cannot produce profitably)

#### Some countries' use of resources

- Japan: highly industrialized nation despite limited natural resources
- Russia: numerous resources, many of which are not economically profitable to develop
- United States: diversified economy, abundant natural resources, specialized industries
- Cote d'Ivoire: limited natural resources, cash crops exchanged for manufactured goods
- Switzerland: limited natural resources, production of services on a global scale

#### Reasons why countries engage in trade

- To import goods and services that they need
- To export goods and services that they can market for profit

#### Effects of comparative advantage on international trade

- Enables nations to produce goods and services that they can market for profit.
- Influences development of industries (e.g., steel, aircraft, automobile, clothing)

#### Advantages of economic unions

- More efficient industries
- ♦ Access to larger markets
- ♦ Access to natural, human and capital resources without restrictions
- ♦ Greater influence on world market

#### Disadvantages of economic unions

- ♦ Closing of some industries
- Concentration of some industries in certain countries, leaving peripheral areas behind
- ♦ Agribusiness replacing family farms
- ♦ Difficulty in agreeing on common economic policies

Political divisions or jurisdictions are regions of the Earth's surface over which groups of people establish social, economic, and political control. Political divisions may generate conflicts

**and or cooperation.** (WG.10a) Examples of political divisions

- \* Neighborhoods
- \* Election districts
- \* School districts
- Regional districts (waste disposal, conservation districts, planning districts, zip code zones)
- Cities
- \* Counties
- \* States

Reasons for political division

- Desire for government closer to home
- Need to solve local problems
- Need to administer resources more efficiently

#### Reasons for conflict

- \* Boundary disputes
- Cultural differences
- \* Economics differences
- \* Competition for scarce resources
- \* Political advantages (e.g., gerrymandering)

#### Reasons for cooperation

- Natural disaster
- Economic advantages (attract new business)
- Cultural similarities, ethnic neighborhoods
- Addressing regional issues (e.g., waste management, magnet schools, transportation)

### Practical applications of geography at local and regional levels - (WG.12a)

- ⇒ Air and water quality monitoring and management
- ⇒ Recycling programs
- ⇒ Land-use and transportation planning
- ⇒ Selection of locations for residential and commercial development

Current events are shaped by the physical and human characteristics of the places and regions where they occur. (WG.12b)

### Physical characteristics that influence current events:

- Natural hazards flooding, earthquakes, volcanoes, draught
- \* Climate, vegetation



#### Human characteristic that influence current events:

- Population distribution
- \* Geographic patterns of ethnic diversity
- \* A sense of place emotional attachment to specific locations
- \* Geographic patterns of trade and interdependence (oil)
- \* Geographic patterns of wealth and poverty (developed and developing nations)

Political divisions or jurisdictions are regions of the Earth's surface over which groups of people establish social, economic and political control. (WG.10b) Examples of political divisions:

Countries

**North America** 

- Alliances: economic and political
  - North Atlantic Treaty Organization (NATO)
  - European Union (EU)
  - Organization of Petroleum Exporting Countries (OPEC)
  - North American Free Trade Agreement (NAFTA)
  - United Nations
  - Organization of American States (OAS)
  - League of Arab States
  - Association of Southeast Asian Nations (ASEAN)
  - African Union (AU)

#### Reasons for political divisions

- \* Differences in culture, language, religion
- Retention of historical boundaries
- \* Imperial conquest and control
- \* Economic similarities and differences

#### Reasons for conflict

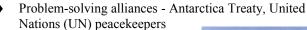
- ♦ Boundary and territorial disputes (Syria-Israel, Western Sahara-Morocco, China-Taiwan, India-Pakistan)
- ◆ Cultural differences (language, religion) (Indonesia, Canada-Quebec, Sudan)
- ◆ Economic differences (fertile land, access to fresh water, access to coast, fishing rights, natural resources, different economic philosophies)
- Ethnic difference Balkans, Cyprus, Kashmir
- Nationalism

#### **Examples of cooperation**

 Humanitarian initiatives -Red Cross, Red Crescent



- Economic alliances Law of Sea,
   China and Unites States multinational corporations,
   North American Free Trade Agreement (NAFTA),
   Organization of Petroleum Exporting Countries (OPEC)
- Cultural alliances Francophone world, Commonwealth of Nations
- ◆ Military alliances North Atlantic Treaty Organization (NATO)



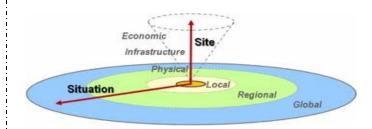
- Programs to promote international understanding -Peace Corps
- ◆ Alliances for environmental preservation
- Alliance for foreign aid



Site and situation are important geographic concepts when studying the growth of cities. Patterns of urban development occur according to site and situation. (WG.11a)

Site: the actual location of a city

**Situation**: relative location - the locations of a city with respect to other geographic features, regions, resources, and transport routes.



#### **Examples of site (local characteristics)**

- Harbor sites: New York City; Alexandria, Egypt; Istanbul, Turkey
- Island sites: Paris (originally located on an island in the Seine River); Hong Kong, Singapore
- Fall line sites: Richmond, Virginia
- Confluence sites: Khartoum, Sudan; Pittsburgh, Pennsylvania
- Hilltop sites: Rome, Athens, Jerusalem
- Oasis sites: Damascus, Syria; Siwa, Egypt
- Sites where rivers narrow: London, Quebec City

#### **Examples of situation (regional/global connections)**

- \* Baghdad: Command of land between the Tigris and Euphrates rivers
- \* Istanbul: Command of straits and land bridge to Europe
- Mecca, Saudi Arabia; Varanasi (Benares), India: Focal point of pilgrimage
- \* Samarkand, Uzbekistan; Xi'an, China; Timbuktu, Mali; Singapore: Cities that grew up around trade routes (the Silk Road, Trans-Sahara trade, maritime trade)
- \* Cape Town, South Africa: supply stations for ships
- \* Omaha, Nebraska; Sacramento, California: Cities that grew up along the US Transcontinental Railroad
- \* Novosibirsk, Vladivostok: Cities that grew up along the Trans-Siberian Railroad



**SPRAWL** 



### The functions of towns and cities change over time.

### Functions of towns and cities

- Security, defense
- Religious centers
- Trade centers (local and long distance)
- Government administration
- ♦ Manufacturing centers
- Service centers

### Examples of cities whose functions have changed over time

- Rio de Janeiro: Move from Brazil's capital to Rio de Janeiro to Brasilia
- Pittsburgh, Pennsylvania: Early function connected to defense, then became steel manufacturing center, later shifted to diverse services (financial, light manufacturing)
- New York City: Changes in trade patterns coastal and transatlantic trade, trade from Great Lakes via Erie Canal, worldwide trade and finances
- ♦ Mining towns, "ghost" towns: Resources depletions, changes in the environment

Urban populations exercise a powerful influence in shaping the world's cultural, political, and economic ideas and systems. Urban development may lead to problems related to human mobility, social structure and the environment.

#### Influences of urban areas on their regions and countries

- Nation-building (monuments, symbols)
- Transportation/communication hubs
- Magnets for migration
- Seed beds of new ideas and technologies
- Diversity, leading to creativity in the arts
- Universities, educational opportunities
- Corporate headquarters/regional offices
- Media centers (news, entertainment)

#### Problems associate with growth of urban areas

- Transportation problems emerge, especially as automobile travel increases
- \* Rich and poor neighborhoods exist in different areas isolated from one another
- Providing essential services (fresh water, sewage disposal, electricity, schools, clinics) becomes a problem in some cities in Latin America, Africa, and Asia
- \* Air, water, and noise pollution increase
- \* Sprawl results in conversion of agricultural land to urban use, especially in North America
- \* In developing countries, major cities are connected more to regions outside the country than to regions within the country.

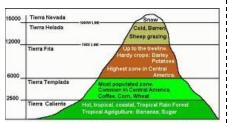
### Latin America and the Caribbean (WG.4)

#### **Physical Characteristics**

- Major mountain ranges: Andes, Sierra Madres
- Wildlife migration patterns: Monarch butterflies
- Rain forests
- Coastal desert: Atacama
- **♦** Reversed seasons south of the equator
- Amazon River Basin
- Grasslands: pampas, llanos
- Tropical climates predominate
- Volcanoes and earthquakes
- Archipelagoes
- Vertical zonation (Tierra caliente, tierra templada, tierra fria)







ALTITUDINAL ZONATION

deforestation

#### **Economic Characteristics**

- ⇒ Diverse economies
- Subsistence farming
- Plantation agriculture
- Slash and burn agriculture
- Cash crops and food crops  $\Rightarrow$
- $\Rightarrow$ Haciendas
- Cattle ranges, gauchos
- Deforestation
- ⇒ Destruction of rain forests
- Oil resources: Ecuador, Venezuela, and Mexico
- ⇒ Heavy smog, pollution: Mexico City
- ⇒ Disparity of income distribution
- North American Free Trade Agreement (NAFTA): Mexico, Canada and
- Diverse mineral resources: copper in Chile, iron ore in Venezuela and Brazil

### **Countries** Mexico and Central America

- Mexico
- Belize
- Guatemala
- El Salvador
- Honduras
- Nicaragua
- Costa Rica
- Panama

#### **South America**

- Colombia
- Venezuela
- Guyana
- Suriname
- French Guiana
- Ecuador
- Peru
- Bolivia
- Brazil
- Paraguay
- Argentina
- Uruguay
- Chile

#### Caribbean

- Cuba
- Haiti
- Jamaica
- Dominican Republic
- Puerto Rico (U.S.)



#### **Cultural Heritage**

- Music: African influences, calypso, steel drum bands, reggae
- Traditional dances
- Spanish, Portuguese languages



#### **Cultural Characteristics**

#### Latin American and the Caribbean

- Indian civilizations
- African traditions
- Influence of European colonization
- Predominance of Roman Catholic religion
- Rigid social structure
- Mestizos
- Locations of settlements: coastal in South America
- Megacities, squatter settlements
- Rapid population growth
- Out-migration

#### Cities as centers of culture and trade

- Mexico City
- \* Rio De Janeiro
- **Buenos Aires**
- \* Santiago



### **Cultural Landscape**

- **Pyramids**
- Haciendas, ejidos (communal land)
- Machu Picchu
- Tikal

### Europe (wg.4)

#### **Countries**

Location of countries, with particular emphasis on countries listed below (selected on the basis of their per capita GDP, land size, and population) GDP

- Norway
- Switzerland
- Luxemburg

#### Land Size

- Ukraine
- France
- Spain

#### Population

- Germany
- United Kingdom
- Italy
- France

#### Cultural Characteritics

Birthplace of Industrial Revolution



- Many ethnic groups with different languages, religions, customs
- ⇒ Sporadic conflict among groups (wars, revolutions)
- Birthplace of western culture: Greece and Rome
- Spread of European culture to many other parts of the world (exploration, colonization, imperialism)
- Highly urbanized
- One of the world's most densely populated areas
- North Atlantic Treaty Organization (NATO)

Europe is part of a large landmass called Eurasia

**Physical Characteristics** 

- Peninsulas
  - Iberian
  - Italian
  - Scandinavian
  - Jutland
  - Balkan
- Islands
  - Great Britain
  - Ireland
  - Sicily
  - Iceland
- **Fiords**
- Mountains
  - Alps
  - Pyrenees
  - North European plain
- Rivers
  - Danube
  - Rhine
  - Siene
  - Volga
- Seas
  - Adriatic
  - Aegean
  - Mediterranean
  - Baltic
  - Black
  - North
- Oceans
  - Atlantic - Arctic
- Strait of Gibraltar
- Varied climate regions: Tundra to Mediterranean
- Effects of the North Atlantic Drift and prevailing westerlies on Europe's climates

### **Economic Characteristics**

- Mountain regions: tourism, recreations, mineral resources
- Areas threatened by air and water pollutions: forests (Black Forest); Cities (Venice); Rivers (Rhine, Danube, Seine)
- Development of industrial and transportation centers near mineral deposits - coal and iron ore in Rhur Valley and Po Valley
- River and canals serving as major transportation links
- Oil reserves in the North Sea  $\Diamond$
- Well-educated work force: Industrial and technological societies, banking in Switzerland
- Advanced farming techniques, high crop yields, fertile soils, black earth (chernonzem)
- Well-developed infrastructure  $\Diamond$
- The Chunnel
- Differences in Western and Eastern European industrial development due to differing economic systems in prior years
- European Union  $\Diamond$
- Trade important; interdependence
- Large role of government in some economies (Sweden, Denmark)
- Replacement of communism with capitalism in Eastern Europe
- Reclaimed land: polders in the Netherlands
- Demographics typical of developed economies
  - high per capita GDP
  - high life expectancy
  - low population growth rate
  - low infant mortality rate
  - small percentage of population under age 15
  - high literacy rate



#### Cities as centers of culture and trade

- Berlin
- London
- Paris
- Madrid
- Rome
- Athens
- Warsaw



### **Cultural Landscape**

- Notre Dame, Arc de Triomphe, Louvre, Eiffel Tower
- Colosseum, Leaning Tower of Pisa, St. Peter's Basilica
- Parthenon
- Westminster Abbey, Big Ben
- Windmills
- Castles





### **United States and Canada (WG.4)**

#### **Countries**

- United States
- Canada

#### **Physical Characteristics**

- Abundant natural resources
- Continental Divide
- Rivers
  - Mississippi
  - St. Lawrence
  - Colorado
  - Columbia
  - Rio Grande
- Other water features
  - Gulf of Mexico
    - Great Lakes
    - Arctic Ocean
    - Pacific Ocean
    - Atlantic Ocean
    - Hudson Bay
- Land forms
  - Appalachian Mountains
  - Pacific Coastal Ranges
  - Basin and Range
  - Rocky Mountains
  - Great Plains
  - Interior lowlands
  - Atlantic and Gulf Coastal Plains
  - Canadian Shield
  - Grand Canyon
  - Columbia Plateau
  - Colorado Plateau
- Varied climatic regions: ranging from tundra in Alaska to tropical wet in Hawaii

#### **Cultural Characteristics**

- Oclonized by the Europeans
- Multicultural societies
- Increasingly diverse populations
- High literacy rate
- ♦ High standards of living
- Highly urbanized
- Canada's struggle to maintain a national identity
- Highly mobile populations



- World's longest unfortified border between the United States and Canada
- Democratic forms of government
- Arts that reflect the cultural heritage of multicultural societies
  - North Atlantic Treaty Organization (NATO)

#### Cities as centers of culture and trade -

- Toronto
- Montreal
- ♦ Ottawa
- Quebec
- ♦ Vancouver, British Columbia



- Washington, D.C.
- Chicago
- ♦ New York City
- Los Angles
- ♦ Houston

### Cultural Landscape

- \* U. S. Capitol
- \* Golden Gate Bridge
- \* Independence Hall
- \* St. Louis Gateway Arch
- Wheat fields
- Skyscrapers, shopping malls
- \* Bilingual signs
- \* Influence of the automobile - (gas stations, motels, interstate highways, drive-up services)







#### **Economic Characteristics**

- \* Major exporters of technology, information systems, and foodstuff
- \* Highly developed infrastructures
- \* Highly diversified economies
- \* Rich supply of minerals, energy, and forest resources
- \* North American Free Trade Agreement (NAFTA)
- \* Multinational corporations
- \* Center of world financial markets (New York Stock Exchange)
- \* Sustained economic growth
- \* Widening gap between rich and poor
- \* Export of US culture via the global marketplace (McDonald's, Coca-Cola, music, blue jeans)





### North Africa and Southwest Asia (WG.4)

#### **Countries**

Location of countries, with particular emphasis on the countries listed below (selected on the basis of the per capita GDP, land size, and population)

- GDP
  - Kuwait
  - United Arab Emirates
  - Oatar
  - Israel
- Land size
  - Algeria
  - Saudi Arabia
  - Libya
- Population
  - Iran
  - Turkey
  - Egypt

#### **Economic Characteristics**

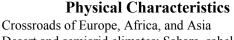
- Heavy reliance on primary economic activity (oil drilling, agriculture, pastoralism)
- ♦ Major producer of world's oil
- ♦ Oil revenues: positive and negative effects
- ♦ Water: the region's most precious resource
- Great variation in standards of living, ranging from very high to povertystricken
- Regional conflicts, political unrest that affects tourism
- ♦ Aswan High Dam: positive and negative effects
- ♦ Suez Canal: enhanced shipping routes in the region
- ♦ Guest workers
- ♦ Trade important to region from earliest time
- Wide range of per capita incomes and levels of development
- ♦ Contemporary trade routes (sea lanes)
- ♦ Organizations of Petroleum Exporting Countries (OPEC)

### **Cultural Landscape**

- \* Mosques, minarets
- \* Church of the Holy Sepulcher
- \* Hagia Sophia
- \* Bazaars, suqs
- \* Western Wall
- \* Dome of the Rock
- \* Kaaba
- \* Pyramids
- \* Oil rigs
- \* Walled Cities







- \* Desert and semiarid climates: Sahara, sahel, steppes
- Mountains
  - Atlas
  - Taurus
  - Zagros
- Water features
  - Mediterranean Sea
  - Red Sea
  - Black Sea
  - Arabian Sea
  - Persian/Arabian Gulf
  - Strait of Hormuz
  - Bosporus Strait
  - Dardanelles Strait
  - Nile River
  - Tigris River
  - Euphrates River
  - Jordan River





\* Seasonal flooding, alluvial soils, delta regions, oases, wadis

#### **Cultural Characteristics**

- Rapid urbanization
- Modernization centered in urban areas while traditional life continues in rural areas
- Large percentage of population under age of 15
- Populations unevenly distributed
- Arab countries and Arabic language
- Non-Arab countries: Turkey, Iran, Israel
- Birthplace of three major monotheistic religions - Judaism, Christianity, and Islam
- Conflict over Palestine
- Nomadic lifestyles
- Art that reflects the diversity of religions (stained glass, geometric tiles, calligraphy, mosaics, prayer rugs)



- \* Baghdad
- \* Cairo
- \* Istanbul
- Jerusalem
- \* Mecca
- \* Tehran





### **Sub-Saharan Africa (WG.4)**

#### Countries

Location of countries, with particular emphasis on the countries listed below (selected on the basis of their per capita GDP, land size, and population)

- **GDP** 
  - South Africa
  - Gabon
  - Botswana
- Land size
  - Democratic Republic of Congo
  - Sudan
  - Chad
  - Mozambique
  - Madagascar
- **Population** 
  - Nigeria
  - Ethiopia
  - Democratic

Republic of Congo

- South Africa
- Tanzania
- Kenya



#### **Physical Characteristics**

- Continent composed of a huge plateau, escarpments
- River transportation impeded by waterfalls and rapids

Location of equator through middle of region; similar climatic

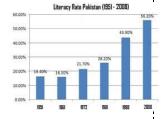
patterns north and south of the equator

- Smooth coastline: few arbors
- Large number of landlocked countries
- Storehouse of mineral wealth
- Limited fertility of rain forest soils
- Kalahari and Namib Deserts
- **Bodies of Water** 
  - Nile River
  - Zambezi River
  - Niger River
  - Congo River
  - Atlantic Ocean
  - Indian Ocean
  - Red Sea
  - Lake Victoria
  - Lake Tanganyika
- Nature preserves and national parks



#### **Economic Characteristics**

- Large percentage of population engaged in agriculture (primary activity)
- Subsistence agriculture
- Nomadic herding
- Slash and burn agriculture
- Plantation agriculture
- Cash crops and food crops
- Poorly developed infrastructure
  - Large number of landlocked countries
- Substantial mineral wealth (diamonds, gold and other
- Major exporters of raw materials
- Wide range of per capita incomes
- Productivity that lags behind population growth
- Desertification
- Demographics typical of developing economics
  - low per capita GDP
  - low life expectancy
  - high population growth rate
  - high infant mortality rate
  - large percentage of population under age 15
  - low literacy rate



#### **Cultural Characteristics**

- $\Diamond$ Uneven population distribution
- $\Diamond$ Many ethnic groups, languages, customs
- $\Diamond$ Large numbers of refugees
- $\Diamond$ Knowledge of history through oral tradition
- $\Diamond$ Country names related to historical empires: Mali, Ghana, Zimbabwe

#### Cultural heritage

- Masks
- Sculpture
- Dance
- Music
- Colorful dress
- Jewelry

#### Cultural landscape

- Markets
- $\Diamond$ Churches
- $\Diamond$ Mosques, minarets
- $\Diamond$ Villages
- Modern city cores

- Lagos
- Dakar
- Johannesburg



### Russia and Central Asia (WG.4)

#### **Countries**

Location of countries, with particular emphasis on the countries listed below (selected on the basis of their per capita GDP, land size, and population)

- GDP
  - Kazakhstan
  - Russia
  - Turkmenistan
- Land size
  - Russia
  - Kazakhstan
  - Turkmenistan
- Population
  - Russia
  - Kazakhstan
  - Uzbekistan

#### **Physical Characteristics**

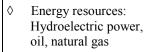
\* Vast land area: Spans two continents, Europe and Asia (covers 11 time zones)

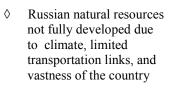


- \* Vast areas of tundra, permafrost, taiga, and steppe
- Varied climatic regions
- \* Black earth belt (rich *chernozem* soil)
- \* Mountain Ural Mountains, which divide Europe from Asia
- \* Caucasus
- \* Siberia (the sleeping land), located east of the Urals
- \* Major oil, natural gas, and mineral resources
- \* Water features
  - Volga River
  - Ob River
  - Amur River
  - Lake Baikal
  - Caspian Sea
  - Aral Sea
  - Bering Strait
  - Pacific Ocean
  - Arctic Ocean
- Some rivers flow northward to the Arctic Ocean

#### **Economic Characteristics**

- Transition from communist to free market economy
- ♦ Farming and industry concentrated in the Fertile Triangle regions, rich chernozem soils (wheat farming)
- ♦ Infrastructure: Trans-Siberian Railroad, systems of rivers, canals, and railroads









- Foreign competition for investment in the region (oil pipelines)
- ♦ Widespread pollution
- ♦ Shrinking of the Aral Sea
- Political and economic difficulties after the breakup of the Soviet Union

#### **Cultural Characteristics**

Diverse ethnic groups, customs, and traditions (many people of Turkic and Mongol heritage).

#### Cultural heritage

- Ballet
- Faberge eggs
- Music
- Icons
- Matryoshka dolls
- Oriental carpets
- Samovars

#### Cultural landscape

- Russian Orthodox churches (e.g., St. Basil's Cathedral, Moscow)
- Red Square
- Kremlin
- Mosques, minarets
- Siberian villages
- Soviet-style apartment blocks

- Moscow
- St. Petersburg
- Novosibirsk

Bangladesh

### **World Geography**

# South, Southeast and East Asia (WG.4)

#### **Countries**

- South Asia
  - Afghanistan
  - Pakistan
  - Nepal
  - Bhutan
  - Bangladesh
  - India
  - Sri Lanka
- Southeast Asia
  - Philippines
  - Indonesia
  - Malaysia
  - Thailand
  - Cambodia - Burma
  - (Myanmar)
  - Laos
  - Vietnam
  - Singapore
  - Brunei
- East Asia
  - Mongolia
  - China (People's Republic of China)
  - Japan
  - Taiwan (Republic of China)
  - North Korea
  - South Korea

#### **Economic Characteristics**

- Varied economies in the region, ranging from subsistence/ commercial agriculture to high-tech industrial manufacturing
- \* Participation in global markets
- \* Newly industrialized countries: South Korea, Taiwan, Singapore
- \* Japan: economic leader
- \* China in transition from centrally planned economy
- \* Agricultural advancements and technology, enabling greater food production: "Green Revolution"
- \* Environmental degradation
- \* Deforestation
- \* Fishing
- \* ASEAN (Association of Southeast Asian Nations)
- \* Rice, tropical crops



#### **Physical Characteristics**

Influence of mountains on population, settlements, movement, climate

Afghanistan

Pakistan

- Mountains—Himalayas, Western and Eastern Ghats, Mount Fuji
- Varied climatic regions ranging from tropical wet to humid continental
- Natural hazards: monsoons, typhoons, volcanic eruptions, earthquakes
- ♦ Influence of waters (rivers, seas, and ocean currents) on agriculture, trade, and transportation
- Bodies of water
  - Arabian Sea
  - Indian Ocean
  - Bay of Bengal
  - Ganges River
  - Indus River
  - Brahmaputra River
  - Pacific Ocean
  - Yangtze River (Chang Jiang)
  - Mekong River
  - Yellow River (Haung He)
- Abundant arable land
- ♦ Loess
- ♦ Plateau of Tibet
- ♦ Gobi Desert



#### **Cultural Characteristics**

- Areas of extremely dense and sparse population
- ♦ Contrast between rural and urban areas
- ♦ religious diversity: Hinduism, Islam, Buddhism, Christianity, Taoism, Shinto, Confucianism
- Respect for ancestors
- Religious conflicts (Hindu vs. Muslim)

#### Cultural heritage

- ♦ Silks
- ♦ Batik
- ♦ Wood and ivory carvings
- ♦ Ideograms, unique alphabets
- ◊ Jewels

#### Cultural landscape

- Taj Mahal
- Angkor Wat
- ♦ Great Wall of China
- Floating markets
- ♦ Mosques, minarets
- Pagodas
- Temples and shrines
- ♦ Terraced rice fields



- ♦ Tokyo
- ♦ Beijing
- ♦ New Delhi

### Australia, Pacific Islands, and Antarctica

(WG.4)

#### **Countries**

- Australia
- New Zealand
- Papua New Guinea
- Hawaiian archipelago (U.S.)

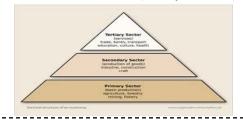






#### **Economic Characteristics**

- Air and water travel that bring goods and services to remote areas
- ♦ Dry areas of Australia well suited to cattle and sheep ranching
- ♦ Upset of environmental balance, caused by introduction of non-native plants and animals
- ♦ Ranching, mining (primary activities)
- ♦ Communications and financial services (tertiary activities)



#### **Physical Characteristics**

\* Wide range of vegetation, from tropical rain forests to desert scrub



- \* Australia, mostly desert
- \* The Great Dividing Range



- \* The Great Barrier Reef
- \* Australia's isolation, resulting in unique animal life
- \* Antarctica, the world's coldest, driest, and windiest continent; icecap
- \* Pacific Islands: volcanic, coral, or continental

#### **Cultural Characteristics**

- Pacific Islands are sparsely populated.
- Most of Australia's population lives near the coasts.
- Traditional culture continues to shape life in the Pacific Islands.
- ♦ Lifestyles range from subsistence farming to modern city living.
- Cultures reflect the mix of European and indigenous cultures (e.g., Maori and aborigines).
- ♦ Antarctica has no permanent residents.

#### Cultural landscape

- Sydney Opera House
- Cattle and sheep stations (Australia)
- Research stations (Antarctica)
- Thatched-roof dwellings (Pacific Islands)

- ◆ Canberra, A.C.T. (Australian Capital Territory)
- ♦ Sydney
- Auckland



