

History and Geography:

THE FOUNDATIONS OF CULTURE

CHAPTER OUTLINE

Global Perspective: Birth of a Nation—Panama in 67 Hours

Historical Perspective in Global Business

History and Contemporary Behavior

History Is Subjective

Manifest Destiny and the Monroe Doctrine

Geography and Global Markets

Climate and Topography

Geography, Nature, and Economic Growth

Social Responsibility and Environmental Management

Resources

Dynamics of Global Population Trends

Controlling Population Growth

Rural/Urban Migration

Population Decline and Aging

Worker Shortage and Immigration

World Trade Routes

Communication Links

CHAPTER LEARNING OBJECTIVES

What you should learn from Chapter 3:

- LO1 The importance of history and geography in understanding international markets
- LO2 The effects of history on a country's culture
- LO3 How culture interprets events through its own eves
- **LO4** How long-past U.S. international policies still affect customer attitudes abroad
- **LO5** The effect of geographic diversity on economic profiles of a country
- **LO6** Why marketers need to be responsive to the geography of a country
- **LO7** The economic effects of controlling population growth and aging populations
- LO8 Communication infrastructures are an integral part of international commerce

Global Perspective

BIRTH OF A NATION—PANAMA IN 67 HOURS

| The | Stage | ls | Set |
|-----|-------|----|-----|
|-----|-------|----|-----|

June 1902 The United States offers to buy the Panama Canal Zone from Colombia for

\$10 million.

August 1903 The Colombian Senate refuses the offer.

Theodore Roosevelt, angered by the refusal, refers to the Colombian Senate as "those contemptible little creatures in Bogotá." Roosevelt then agrees to a plot, led by secessionist Dr. Manuel Amador, to assist a group planning to secede from

Colombia.

October 17 Panamanian dissidents travel to

Washington and agree to stage a U.S.-backed revolution. The revolution is set

for November 3 at 6:00 p.m.

October 18 A ag, constitution, and declaration of independence are created over

the weekend. Panama's rst ag was designed and sewn by hand in Highland Falls, New York, using fabric bought at

Macy's.

Philippe Jean Bunau-Varilla, a French engineer associated with the bankrupt French—Panamanian canal construction company and not a permanent resident in Panama, is named Panama's ambassador to the United States.

A Country Is Born

Tuesday, Precisely at 6:00 p.m.,

November 3 the Colombian garrison is bribed to

lay down their arms. The revolution begins, the U.S.S. *Nashville* steams into Colón harbor, and the junta proclaims

Panama's independence.

Friday, By 1:00 p.m., the United

November 6 States recognizes the sovereign state

of Panama.

Saturday, The new government sends an

November 7 of cial delegation from Panama to the United States to instruct the

Panamanian ambassador to the United States on provisions of the

Panama Canal Treaty.

Wednesday, November 18 At 6:40 p.m., the Panamanian ambassador

signs the Panama Canal Treaty. At 11:30 p.m., the of cial Panamanian delegation arrives at a Washington, DC, railroad station and is met by their ambassador, who informs them that the treaty was signed just hours earlier.

The Present

1977 The United States agrees to relinquish control of the Panama Canal Zone on December 31, 1999.

1997 Autoridad del Canal de Panama, the canal authority that will assume control from the U.S. Panama Canal Commission, is created.

1998 Panama gives a Chinese company the right to build new port facilities on both the Paci c and Atlantic sides, to control anchorages, to hire new pilots to guide ships through the canal, and to block all passage that interferes with the company's business.

January 1, "The canal is ours" is the jubilant

2000 cry in Panama.

January 17, The Pentagon sees a potential

2000 Chinese threat to the Panama Canal.

July 2002 China pressures Panama to extend diplomatic recognition to China and drop

recognition of Taiwan.

2005 The Panama Canal is expected to reach maximum capacity by 2010. The administrative board proposes a \$5 billion expansion to add a parallel set of locks in response to the threat of a competing project to build canals or "multimodal" systems across Mexico's Tehuantepec isthmus. Either expand or "run the risk of eventually becoming just a regional canal."

2010 A project to double the capacity of the canal begins, scheduled to be completed in 2014.

This story is a good illustration of how history and geography can affect public and political attitudes in the present and far into the future. To the Panamanians and much of Latin America, the Panama Canal is but one example of the many U.S. intrusions during the early 20th century that have tainted U.S.—Latin American relations. For the United States, the geographical importance of the Panama Canal for trade (shipping between the two coasts via the canal is cut by 8,000 miles) makes control of the canal a sensitive issue, especially if that control could be potentially hostile. That a Chinese-owned company has operational control of both the Paci c and Atlantic ports and could pose an indirect threat to the Panama Canal Zone concerns the U.S. government. The recent history of U.S. con ict with China and the history of

Western domination of parts of China create in the minds of many an adversarial relationship between the two countries. Furthermore, some wonder if Panama would be reluctant to ask the United States to intervene at some future date, perhaps fearing that the Americans might stay another 98 years. Although the probability of China sabotaging the canal is slim at best, historical baggage makes one wonder what would happen should U.S. relations with China deteriorate to the point that the canal were considered to be in jeopardy.

Sources: Bernard A. Weisberger, "Panama: Made in U.S.A.," *American Heritage*, November 1989, pp. 24–25; Juanita Darling, "'The Canal Is Ours' Is Jubilant Cry in Panama," *Los Angeles Times*, January 1, 2000, p. A1; C.J. Scchexayder, "Spain–Mexico Team Outbids Panama Canal Competitors," *Engineering News-Record*, January 4, 2010, p. 11.

LO1

The importance of history and geography in understanding international markets

Here we begin the discussion of the Cultural Environment of Global Markets. *Culture* can be de ned as a society's accepted basis for responding to external and internal events. To understand fully a society's actions and its points of view, you must have an appreciation for the in uence of historical events and the geographical uniqueness to which a culture has had to adapt. To interpret behavior and attitudes in a particular culture or country, a marketer must have some idea of a country's history and geography.

The goal of this chapter is to introduce the reader to the impact of history and geography on the marketing process. The in uence of history on behavior and attitudes and the in uence of geography on markets, trade, and environmental issues are examined in particular.

Historical Perspective in Global Business History helps de ne a nation's "mission," how

it perceives its neighbors, how it sees its place in the world, and how it sees itself. Insights into the history of a country are important for understanding attitudes about the role of government and business, the relations between managers and the managed, the sources of management authority, and attitudes toward foreign corporations.

To understand, explain, and appreciate a people's image of itself and the attitudes and unconscious fears that are rejected in its view of foreign cultures, it is necessary to study the culture as it is now as well as to understand the culture as it was—that is, a country's history.

History and Contemporary Behavior

LO2

The effects of history on a country's culture

1000 First millennium ends;

Most Americans know the most about European history, even though our major trading partners are now to our west and south. Circa 2008, China became a hot topic in the United States. It was back in 1776 as well. In a sense, American history really begins with China. Recall the Boston Tea Party: Our complaint then was the British tax and, more important, the British prohibition against Yankee traders dealing directly with merchants in Canton. So it is worthwhile to dwell for a few moments on a couple of prominent points in the history of the fast burgeoning market that is modern-day China. James Day Hodgson, former U.S. Labor Secretary and Ambassador to Japan, suggests that anyone doing business in another country should understand at least the encyclopedic version of the people's past as a matter

Y1K problem overblown—widespread fear of the end of the world proved unfounded 1000 Vikings settle Newfoundland 1004 Chinese unity crumbles with treaty between the Song and the Liao, giving the Liao full autonomy; China will remain fractured until the Mongol invasion in the 13th century (see 1206)

1025 Navy of Cholas in southern India crushes the empire of Srivijaya in modern Myanmar to protect its trade with China

1054 Italy and Egypt formalize commercial relations
1066 William the Conqueror is victorious over Harold II in the Battle of Hastings, establishing Norman rule in England and forever linking the country with the continent

1081 Venice and Byzantium conclude a commercial treaty (renewed in 1126)
1095 First of the crusades begins; Pope Urban II calls on Europe's noblemen to help the Byzantines repel the Turks; the crusaders' travel, stories, and goods acquired along the way help increase trade across Europe and with the Mediterranean and Asia; eighth major crusade

ends—Syria expels the Christians

1100 Japan begins to isolate itself from the rest of the world, not really opening up again until the mid-19th century (see 1858)

1100 China invents the mariner's compass and becomes a force in trade; widespread use of paper money also helps increase trade and prosperity

of politeness, if not persuasion. As important examples we offer a few perhaps surprising glimpses of the past that continues to in uence U.S.—Asia trade relations even today.

First Opium War and the Treaty of Nanjing (1839–1842). During the early 1800s, the British taste for tea was creating a huge trade de cit with China. Silver bullion was owing fast in an easterly direction. Of course, other goods were being traded, too. Exports from China also included sugar, silk, mother-of-pearl, paper, camphor, cassia, copper and alum, lacquer ware, rhubarb, various oils, bamboo, and porcelain. The British "barbarians" returned cotton and woolen textiles, iron, tin, lead, carnelian, diamonds, pepper, betel nuts, pearls, watches and clocks, coral and amber beads, birds' nests and shark ns, and foodstuffs such as sh and rice. But the tea-for-silver swap dominated the equation.

Then came the English East India Company's epiphany: opium. Easy to ship, high value to volume and weight ratios, and addicting to customers—what a great product! At the time, the best opium came from British India, and once the full ow began, the tea-caused trade de cit disappeared fast. The Emperor complained and issued edicts, but the opium trade burgeoned. One of the taller skyscrapers in Hong Kong today is the Jardine-Matheson Trading House.² Its circular windows are reminiscent of the portholes of its clipper-ship beginnings in the opium trade.

In 1836 some high-ranking Chinese of cials advocated legalizing opium. The foreign suppliers boosted production and shipments in anticipation of exploding sales. Then the Emperor went the opposite direction and ordered the destruction of the inventories in Canton (now known as Guangzhou). By 1839 the trade was dead. The British responded by sinking junks in the Pearl River and blockading all Chinese ports.

The "magically accurate" British cannon pointed at Nanjing yielded negotiations there in 1842. The Chinese ceded Hong Kong and \$21 million pounds to the British. Ports at Xiamen, Fuzhou, Ningbo, and Shanghai were opened to trade and settlement by foreigners. Hong Kong thus became the gateway to a xenophobic China, particularly for the past 50 years. Perhaps most important, China recognized for the rst time its loss of great power status.

Ultimately the Opium War became about foreign access to Chinese trade, and the treaty of Nanjing really didn't settle the issue. A second Opium War was fought between 1857 and 1860. In that imbroglio, British and French forces combined to destroy the summer palace in Beijing. Such new humiliations yielded more freedoms for foreign traders; notably, the treaty speci cally included provisions allowing Christian evangelism throughout the realm.

Taiping Rebellion (1851–1864). One consequence of the humiliation at the hands of foreigners was a loss of con dence in the Chinese government. The resulting disorder came to a head in Guangxi, the southernmost province of the Empire. The leader of the uprising was a peasant who grew up near Guangzhou. Hong Xiuquan aspired to be a

1100 Inca Empire in the Andes begins to develop, eventually encompassing about 12 million people until its destruction by the Spanish in 1553; cities specialize in certain farming and trade with others for what they don't make

1132 Corporate towns in France grant charters by Henry I to protect commerce

1189 German merchants conclude treaty with Novgorod in Russia

1200 Islam is introduced by spice traders to Southeast Asia 1200 More than 60,000 Italian merchants work and live in Constantinople

1206 Genghis Khan becomes the Great Khan, controlling most of northern China; after his death in 1227, the Khan

clan conquers much of Asia by midcentury and promotes trade and commerce, reviving the ancient Silk Road that linked Chinese and Western traders

1215 The Magna Carta, a pact between the English king and his subjects, is signed by King John, who becomes subject to the rule of law

1229 German merchants sign trade treaty with the Prince of Smolensk in Russia

1252 First gold coins issued in the West since the fall of Rome, in Florence

1269 England institutes toll roads

1270 Venetian Marco Polo and his father travel through Asia and the Middle East, becoming the first European

¹James Day Hodgson, Yoshihiro Sano, and John L. Graham, *Doing Business in the New Japan, Succeeding in America's Richest Foreign Market* (Latham, MD: Rowman & Little eld, 2008).

²In a very interesting paper, the authors argue that choices made by Jardine's and Swire's (trading houses) in Asia today, for example, are an outgrowth of strategic choices rst in evidence more than a century ago! See Geoffrey Jones and Tarun Khanna, "Bringing History (Back) into International Business," *Journal of International Business Studies* 37 (2006), pp. 453–68.

civil servant but failed the required Confucian teachings—based exam. When in Guangzhou for his second try at the exam, he came in contact with Protestant Western missionaries and later began to have visions of God.

After unking the exam for a fourth time in 1843, he began to evangelize, presenting himself as Christ's brother. In the next seven years, he attracted 10,000 followers. In 1851, he was crowned by his followers as the "Heavenly King" of the "Heavenly Kingdom of Peace." Despite their adopted label, they revolted, cut off their pigtails in de ance of the ruling Manchus, and began to march north. With the fervor of the religious zealots they were, they fought their way through the capital at Nanjing and almost to Tianjing by 1855.

But then things started to unravel. Chinese opposition forces organized. Because foreigners appreciated neither Hong's interpretation of the scriptures, nor his 88 concubines, nor his attacks on Shanghai, they formed another army against him. Hong took his own life just before the nal defeat and the recapture of Nanjing.

Estimates of the death toll from the Taiping Rebellion stand between 20 and 40 million people. We repeat: 20–40 million Chinese lives were lost. By contrast, "only" 2 million were killed in the 1949 Communist Revolution. The Taiping Rebellion is the single most horric civil war in the history of the world. Surely Hong Xiuquan was insane. Other rebellions also occurred in China during this time; the Muslim one in the northwest is most notable (1862–78). However, based on these events in the mid-1800s, it is easy to see why the Chinese leadership has remained wary of foreign in uences in general, and religious movements in particular, even today.³

History and Japan. Trade with Japan was a hot topic in the United States in both the 1850s and the 1980s. Likewise, unless you have a historical sense of the many changes that have buffeted Japan—seven centuries under the shogun feudal system, the isolation before the arrival of Commodore Perry in 1853, the threat of domination by colonial powers, the rise of new social classes, Western in uences, the humiliation of World War II, and involvement in the international community—you will have dif culty fully understanding its contemporary behavior. Why do the Japanese have such strong loyalty toward their companies? Why is the loyalty found among participants in the Japanese distribution systems so dif cult for an outsider to develop? Why are decisions made by consensus? Answers to such questions can be explained in part by Japanese history (and geography).

Loyalty to family, to country, to company, and to social groups and the strong drive to cooperate, to work together for a common cause, permeate many facets of Japanese behavior and have historical roots that date back thousands of years. Historically, loyalty and service, a sense of responsibility, and respect for discipline, training, and artistry were stressed to maintain stability and order. **Confucian philosophy**, taught throughout Japan's history, emphasizes the basic virtue of loyalty "of friend to friend, of wife to husband, of child to parent, of brother to brother, but, above all, of subject to lord," that is, to country.

³N. Mark Lam and John L. Graham, *Doing Business in China Now, the World's Most Dynamic Marketplace* (New York: McGraw-Hill, 2007).

traders to establish extensive links with the region

1279 Kublai Khan unites China and creates the Yuan (Origin) dynasty; by the time he dies in 1294, he has created a unified Mongol Empire extending from China to eastern Europe

1300 The early stirrings of the Renaissance begin in Europe as people are exposed to other cultures, primarily through merchants and trade; trade fairs are held in numerous European cities

1315 A great famine hits Europe, lasting two years, more widespread and longer than any before

1348 The Plague (the Black Death) kills one-fourth to one-third of the population in Europe (25 million people) in just three years, disrupting trade as cities try to prevent the spread of the disease by restricting visitors; it likely started in Asia in the 1320s; massive inflation took hold, because goods could only be obtained

locally; serfs were in high demand and began moving to higher wage payers, forever altering Europe's labor landscape 1358 German Hanseatic

League officially forms by the Hansa companies of merchants for trade and mutual protection, eventually encompassing more than 70 cities and lasting nearly 300 years

1375 Timur Lang the Turk conquers lands from Moscow to Delhi

1381 English rioters kill foreign Flemish traders as part of the 100,000-strong peasant rebellion against Richard II, which was led by Wat Tyler in a failed attempt to throw off the yoke of feudalism

1392 England prohibits foreigners from retailing goods in the country

1400 Koreans develop movable-type printing (see 1450)

A fundamental premise of Japanese ideology refects the importance of cooperation for the collective good. Japanese achieve consensus by agreeing that all will unite against outside pressures that threaten the collective good. A historical perspective gives the foreigner in Japan a basis on which to begin developing cultural sensitivity and a better understanding of contemporary Japanese behavior.

History Is Subjective



How culture interprets events through its own eyes

History is important in understanding why a country behaves as it does, but history from whose viewpoint? Historical events always are viewed from one's own biases and selfreference criteria (SRC), and thus, what is recorded by one historian may not be what another records, especially if the historians are from different cultures. Historians traditionally try to be objective, but few can help ltering events through their own cultural biases.⁴

Our perspective not only in uences our view of history but also subtly in uences our view of many other matters. For example, maps of the world sold in the United States generally show the United States at the center, whereas maps in Britain show Britain at the center, and so on for other nations.

A crucial element in understanding any nation's business and political culture is the subjective perception of its history. Why do Mexicans have a love-hate relationship with the United States? Why were Mexicans required to have majority ownership in most foreign investments until recently? Why did dictator General Porfírio Díaz lament, "Poor Mexico, so far from God, so near the United States"? Why? Because Mexicans see the United States as a threat to their political, economic, and cultural sovereignty.

Most citizens of the United States are mysti ed by such feelings. After all, the United States has always been Mexico's good neighbor. Most would agree with President John F. Kennedy's proclamation during a visit to Mexico that "Geography has made us neighbors, tradition has made us friends." North Americans may be surprised to learn that most Mexicans "felt it more accurate to say 'Geography has made us closer, tradition has made us far apart."55

Citizens of the United States feel they have been good neighbors. They see the Monroe Doctrine as protection for Latin America from European colonization and the intervention of Europe in the governments of the Western Hemisphere. Latin Americans, in contrast, tend to see the Monroe Doctrine as an offensive expression of U.S. in uence in Latin America. To put it another way, "Europe keep your hands off-Latin America is only for the United States," an attitude perhaps typi ed by former U.S. President Ulysses S. Grant, who, in a speech in Mexico in 1880, described Mexico as a "magni cent mine" that lay waiting south of the border for North American interests.

United States Marines sing with pride of their exploits "from the halls of Montezuma to the shores of Tripoli." To the Mexican, the exploit to which the "halls of Montezuma"

1404 Chinese prohibit private trading in foreign countries, but foreign ships may trade in China with official permission 1415 Chinese begin significant trading with Africa through government expeditions some believe they sailed to North America as well in 1421 **1425** Hanseatic city of Brugge becomes the first Atlantic seaport to be a major trading center

1427 Aztec Empire is created by Itzcotl; it will encompass about 6 million people before its destruction in 1519 **1430** Portuguese Prince Henry the Navigator explores west African coast to promote trade

1441 Mayan Empire collapses as the city of Mayapán is destroyed in a revolt

1450 Renaissance takes hold in Florence, its traditional birthplace

1450 Gutenberg Bible is first book printed with movable type; the ability to mass produce books creates an information revolution **1453** Byzantine Empire is destroyed as Muhammad II sacks Constantinople (renaming it Istanbul) 1464 French royal mail service established by Louis XI **1470** Early trademark piracy committed by Persians

who copy mass-produced Chinese porcelain to capitalize on its popularity in foreign countries

1479 Under the Treaty of Constantinople, in exchange for trading rights in the Black Sea, Venice agrees to pay tribute to the Ottoman Empire

1482 English organize a postal system that features fresh relays of horses every 20 miles

⁴An example of such biases is the differing perceptions of Turkey by European Union members in deciding on Turkey's membership in the EU. See "Which Turkey?" The Economist, March 17, 2005.

⁵For an insightful review of some of the issues that have affected relations between the United States and Mexico, see John Skirius, "Railroad, Oil and Other Foreign Interest in the Mexican Revolution, 1911-1914," Journal of Latin American Studies, February 2003, p. 25.

The Monumento de Los Niños Heroes honors six young cadets who, during the Mexican—American War of 1847, chose death over surrender. The Mexican—American War is important in Mexican history and helps explain, in part, Mexico's love—hate relationship with the United States. (© Dave G. Houser/Corbis)



refers is remembered as U.S. troops marching all the way to the center of Mexico City and extracting as tribute 890,000 square miles that became Arizona, California, New Mexico, and Texas (see Exhibit 3.1). A prominent monument at the entrance of Chapultepec Park recognizes *Los Niños Heroes* (the boy heroes), who resisted U.S. troops, wrapped themselves in Mexican ags, and jumped to their deaths rather than surrender. Mexicans recount the heroism of *Los Niños Heroes*⁶ and the loss of Mexican territory to the United States every September 13, when the president of Mexico, the cabinet, and the diplomatic corps assemble at the Mexico City fortress to recall the defeat that led to the "despojo territorial" (territorial plunder).

The Mexican Revolution, which overthrew the dictator Díaz and launched the modern Mexican state, is particularly remembered for the expulsion of foreigners—most notably North American businessmen who were the most visible of the wealthy and in uential entrepreneurs in Mexico.

⁶When the United Nations recommended that all countries set aside a single day each year to honor children, Mexico designated April 30 as "Dia de Los Niños." Interestingly, this holiday often coincides with Saint Patrick's Day celebrations, which include recognition of the San Patricios, the Irish-American battalion that fought with the Mexicans in the Mexican–American War. See Carol Sowers, "El Dia de Los Niños Adds International Touch to Celebration," *Arizona Republic*, April 29, 2005.

1488 Bartolomeu Dias sails around the coast of Africa; this, along with the voyages of Christopher Columbus, ushers in the era of sea travel
1492 Christopher Columbus "discovers" the New World
1494 Portugal and Spain divide the unexplored world between them with the Treaty of Tordesillas
1500 Rise of mercantilism, the accumulation of wealth by the state to increase power, in western Europe; states without gold or silver mines try to control

trade to maintain a surplus and accumulate gold and silver; Englishman Thomas Mun was one of the great proponents in 1600, who realized that the overall balance of trade was the important factor, not whether each individual trade resulted in a surplus

1500 Slave trade becomes a major component of commerce

1504 Regular postal service established among Vienna, Brussels, and Madrid

1520 First chocolate brought from Mexico to Spain

1521 Mexico is conquered by Hernán Cortés after Aztec ruler Montezuma is accidentally killed

1522 Magellan's expedition completes its three-year sail around the world; it is the first

successful circumnavigation
1531 Antwerp stock exchange
is the first exchange to move
into its own building, signifying
its importance in financing
commercial enterprises
throughout Europe and the
rising importance of private

trade and commerce; Antwerp emerges as a trading capital **1532** Brazil is colonized by the Portuguese

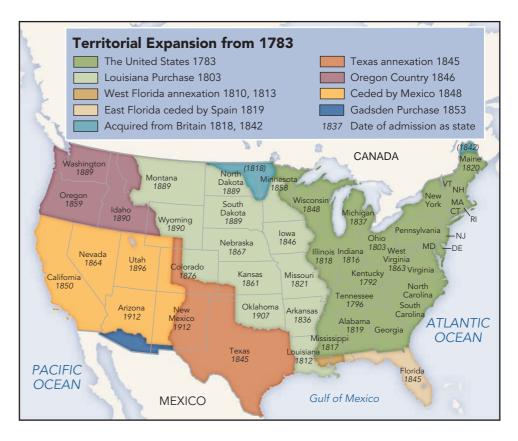
the Portuguese
1534 English break from the
Catholic Church, ending its
dominance of politics and trade
throughout Europe, as Henry VIII
creates the Church of England
1553 South American Incan
Empire ends with conquest by
Spanish; the Incas had created
an extensive area of trade,
complete with an infrastructure
of roads and canals

Exhibit 3.1

Territorial Expansion of United States from 1783

The United States expanded westward to the Pacific through a series of financial deals, negotiated settlements, and forcible annexations. The acquisition of territory from Mexico began with the Battle of San Jacinto in 1836, when Texas staged a successful revolt against the rule of Mexico and became The Republic of Texas later to join the Union in 1845. The Mexican War (1846-1848) resulted in Mexico ceding California and a large part of the West to the United States.

Source: From Oxford Atlas of the World, 10th ed., 2002. Reprinted with permission of Philip Maps.



Manifest Destiny and the Monroe Doctrine

Manifest Destiny and the Monroe Doctrine were accepted as the basis for U.S. foreign policy during much of the 19th and 20th centuries. Manifest Destiny, in its broadest interpretation, meant that Americans were a chosen people ordained by God to create a model society. More speci cally, it referred to the territorial expansion of the United States from the Atlantic to the Paci c. The idea of Manifest Destiny was used to justify the U.S. annexation of Texas, Oregon, New Mexico, and California and, later, U.S. involvement in Cuba, Alaska, Hawaii, and the Philippines. Exhibit 3.1 illustrates when and by what means the present United States was acquired.

The **Monroe Doctrine**, a cornerstone of early U.S. foreign policy, was enunciated by President James Monroe in a public statement proclaiming three basic dicta: no further European colonization in the New World, abstention of the United States from European

⁷Some say even into the 21st century. See "Manifest Destiny Warmed Up?" *The Economist*, August 14, 2003. Of course, others disagree. See Joseph Contreras, "Roll Over Monroe: The In uence the United States Once Claimed as a Divine Right in Latin America is Slipping away Fast," *Newsweek International*, December 10, 2007.

1555 Tobacco trade begins after its introduction to Europe by Spanish and Portuguese traders

1557 Spanish crown suffers first of numerous bankruptcies, discouraging cross-border lending

1561 Via Dutch traders, tulips come to Europe from Near East for first time

1564 William Shakespeare is born; many of his plays are stories of merchant traders

1567 Typhoid fever, imported from Europe, kills two million Indians in South America

1588 Spanish Armada defeated by British, heralding Britain's emergence as the world's greatest naval power; this power will enable Britain to colonize many regions of the globe and lead to its becoming the world's commercially dominant power for the next 300 years

1596 First flush toilet is developed for Britain's Queen Elizabeth I

1597 Holy Roman Empire expels English merchants in retaliation for English treatment of Hanseatic League

1600 Potatoes are brought from South America to Europe, where they quickly spread to the rest of world and become a staple of agricultural production 1600 Japan begins trading silver for foreign goods

1600 Britain's Queen Elizabeth I grants charter to the East India Company, which will dominate trade with the East until its demise in 1857

1601 France makes postal agreements with neighboring states

1602 Dutch charter their own East India Company, which will dominate the South Asian coffee and spice trade

1607 British colony of Jamestown built

political affairs, and nonintervention by European governments in the governments of the Western Hemisphere.

After 1870, interpretation of the Monroe Doctrine became increasingly broad. In 1881, its principles were evoked in discussing the development of a canal across the Isthmus of Panama. Theodore Roosevelt applied the Monroe Doctrine with an extension that became known as the Roosevelt Corollary. The corollary stated that not only would the United States prohibit non-American intervention in Latin American affairs, but it would also police the area and guarantee that Latin American nations met their international obligations. The corollary sanctioning American intervention was applied in 1905 when Roosevelt forced the Dominican Republic to accept the appointment of an American economic adviser, who quickly became the nancial director of the small state. It was also used in the acquisition of the Panama Canal Zone from Colombia in 1903 and the formation of a provisional government in Cuba in 1906.

The manner in which the United States acquired the land for the Panama Canal Zone typi es the Roosevelt Corollary—whatever is good for the United States is justi able. As the Global Perspective at the beginning of this chapter illustrates, the creation of the country of Panama was a total fabrication of the United States.⁸

According to U.S. history, these Latin American adventures were a justi able part of our foreign policy; to Latin Americans, they were unwelcome intrusions in Latin American affairs. This perspective has been constantly reinforced by U.S. intervention in Latin America since 1945 (see Exhibit 3.2). The way historical events are recorded and interpreted in one culture can differ substantially from the way those same events are recorded and interpreted in another. From the U.S. view, each of the interventions illustrated in Exhibit 3.2 was justi ed. A comparison of histories goes a long way in explaining the differences in outlooks and behavior of people on both sides of the border. Many Mexicans believe that their "good neighbor" to the north is not reluctant to throw its weight around when it wants something. Suspicions that self-interest is the primary motivation for good relations with Mexico abound.9

History viewed from a Latin American perspective explains how a national leader, under adverse economic conditions, can point a nger at the United States or a U.S. multinational corporation and evoke a special emotional, popular reaction to divert attention away from the government in power. As a case in point, after the U.S. House of Representatives voted to censure Mexico for drug corruption, President Ernesto Zedillo came under pressure to

LO4

How long-past U.S. international policies still affect customer attitudes abroad

⁸For an interesting discussion of how past U.S. foreign interventions affect attitudes about U.S. involvement in Iraq, see "Anti-Americanism: The View from Abroad," *The Economist*, February 17, 2005.

⁹Many Latin Americans' elation with the Bush administration's rst-term pronouncements that the United States was looking south "not as an afterthought but as a fundamental commitment"—that a region "too often separated by history or rivalry and resentment" should prepare itself for the start of a "new era" of cooperation—soon became disappointment as the war on terror turned U.S. attention away from Latin America. Marcela Sanchez, "Bush, Looking Every Which Way but South," Washington Post, January 6, 2005.

1609 Dutch begin fur trade through Manhattan

1611 Japan gives Dutch limited permission to trade

1612 British East India Company builds its first factory in India

1620 Mayflower sails for the New World

1620 Father of the Scientific Revolution, Francis Bacon, publishes *Novum Organum*, promoting inductive reasoning

through experimentation and observation

1625 Dutch jurist Hugo Grotius, sometimes called the father of international law, publishes On the Laws of War and Peace

1636 Harvard University founded

1637 Dutch "tulip mania" results in history's first boombust market crash

1651 English pass first of so-called Navigation Acts to restrict Dutch trade by forcing

colonies to trade only with English ships

1654 Spain and Germany develop hereditary land rights, a concept that will help lead to the creation of great wealth in single families and thus to the development of private commercial empires

1687 Apple falling on Newton's head leads to his publication of the law of gravity **1694** The Bank of England is established; it offers loans to

private individuals at 8 percent interest

1698 First steam engine is invented

1719 French consolidate their trade in Asia into one company, the French East India Company; rival British East India Company maintains its grip on the region's trade, however, and French revert to individual company trading 60 years later

Exhibit 3.2

U.S. Intervention in Latin America Since 1945



- 1 USA attempts to thwart election of Perón (1946)
- **2** Popular Revolution neutralized by US economic pressure (1952)
- 3 CIA-organized invasion overthrows Arbenz (1954) following expropriation of United Fruit Company lands
- 4 Nationalist revolution (1959) and alliance with USSR (1960). USA declares economic embargo, and CIA organizes failed Bay of Pigs invasion (1961). Cuban Missile Crisis (1962).
- 5 Covert intervention by USA against elected Marxist government of Popular Unity (1970–73)
- 6 Military intervention to suppress possible communist influence (1965)
- 7 Revolution (1979): USA funds counter-revolutionary movement (1980s)
- **8** Covert intervention by USA to defeat left-wing guerrillas (1980–88)
- **9** US invasion to restore stable government (1983)
- 10 US invasion to arrest President Noriega on charges of drug trafficking (1989)
- 11 "Negotiated" US invasion to restore democracy (1994)
- 12 North American Free Trade Agreement (1994)

Source: From Oxford Atlas of the World, 10th ed., 2002. Reprinted with permission of Philips Maps.

take a hard stand with Washington. He used the anniversary of Mexico's 1938 expropriation of the oil industry from foreign companies to launch a strong nationalist attack. He praised the state oil monopoly Pemex as a "symbol of our historical struggles for sovereignty." Union members cheered him on, waving a huge banner that read: "In 1938 Mexico was 'decerti ed' because it expropriated its oil and it won—today we were decerti ed for defending our dignity and sovereignty." Apparently Venezuelan President Hugo Chavez was listening, based on his more recent nationalization of foreign oil company assets in the Orinoco River Basin¹⁰ and his recent renaming of the country the Bolivarian Republic of Venezuela.¹¹

1725 Rise of Physiocrats, followers of the economic philosopher François Quesnay, who believed that production, not trade, created wealth and that natural law should rule, which meant producers should be able to exchange goods freely; movement influenced Adam Smith's ideas promoting free trade

1740 Maria Theresa becomes empress of the Holy Roman Empire (until 1780); she ends

serfdom and strengthens the power of the state

1748 First modern, scientifically drawn map, the Carte Géométrique de la France, comprising 182 sheets, was authorized and subsequently drawn by the French Academy; Louis XV proclaimed that the new map, with more accurate data, lost more territory than his wars of conquest had gained 1750 Benjamin Franklin shows that lightning is a form of elec-

tricity by conducting it through the wet string of a kite 1750 Industrial Revolution begins and takes off with the manufacture, in 1780, of the steam engine to drive machines—increased productivity and consumption follow (as do poor working conditions and increased hardships for workers) 1760 Chinese begin strict regulation of foreign trade to last nearly a century

when they permit Europeans

to do business only in a small area outside Canton and only with appointed Chinese traders

1764 British victories in India begin Britain's dominance of India, Eastern trade, and trade routes

1764 British begin numbering houses, making mail delivery more efficient and providing the means for the development of direct mail merchants centuries later

¹⁰ Venezuela: Spirit of the Monroe Doctrine," *Washington Times*, June 10, 2007, p. B5; Brian Ellsworth, "Oil at \$100, Venezuela's Chavez Faces Industry Slump," *Reuters*, January 4, 2008.

¹¹"Venezuela: Chavez's New Currency Targets In ation," *Tulsa World*, January 1, 2008, p. A6.

CROSSING BORDERS 3.1

Microsoft Adapts Encarta to "Local History"

Adapting to the local culture is an important aspect of strategy for many products. Understanding a country's history helps achieve that goal. Microsoft has nine different editions reflecting local "history" to be sure that its Encarta multimedia encyclopedia on CD-ROM does not contain cultural blunders. As a consequence, it often reflects different and sometimes contradictory understandings of the same historical events. For example, who invented the telephone? In the U.S., U.K., and German editions, it is Alexander Graham Bell, but ask the question in the Italian edition, and your answer is Antonio Meucci, an Italian-American candle maker whom Italians believe beat Bell by five years. For electric light bulbs, it is Thomas Alva Edison in the United States, but in the United Kingdom, it is the British inventor Joseph Swan. Other historical events reflect local perceptions. The nationalization of the Suez Canal, for example, in the U.S. edition is a decisive intervention by superpowers. In the French and U.K. editions, it is summed up as a "humiliating reversal" for Britain and France—a phrase that does not appear in the U.S. edition.

Although Microsoft is on the mark by adapting these events to their local historical context, it has, on occasion, missed the boat on geography. South Korean ire was raised when the South Korean island of Ullung-do was placed within Japan's borders and when the Chon-Ji

Lake, where the first Korean is said to have descended from heaven, was located in China. And finally, an embarrassed Microsoft apologized to the people of Thailand for referring to Bangkok as a commercial sex center, assuring the women's activists group that protested that the revised version would "include all the great content that best reflects its rich culture and history."

Microsoft also bows to political pressure. The government of Turkey stopped distribution of an Encarta edition with the name Kurdistan used to denote a region of southeastern Turkey on a map. Hence Microsoft removed the name Kurdistan from the map. Governments frequently lobby the company to show their preferred boundaries on maps. When the border between Chile and Argentina in the southern Andes was in dispute, both countries lobbied for their preferred boundary, and the solution both countries agreed to was—no line.

But our fun stories about changes to Encarta must come to an end, because the online encyclopedia has itself become a topic of history. Microsoft folded the entire Encarta operation without explanation in 2009; most analysts agree Wikipedia simply did it in.

Sources: Kevin J. Delaney, "Microsoft's Encarta Has Different Facts for Different Folks," *The Wall Street Journal*, June 25, 1999, p. A1; "Why You Won't Find Kurdistan on a Microsoft Map of Turkey," *Geographical*, November 1, 2004; Nick Winfield, "Microsoft to Shut Encarta as Free Sites Alter Market," *The Wall Street Journal*, March 31, 2009, p. B3.

These leaders might be cheered for **expropriation** or con scation of foreign investments, even though the investments were making important contributions to their economies. To understand a country's attitudes, prejudices, and fears, it is necessary to look beyond the surface of current events to the inner subtleties of the country's entire past for clues. Three comments by Mexicans best summarize this section:

History is taught one way in Mexico and another way in the United States—the United States robbed us but we are portrayed in U.S. textbooks as bandits who invaded Texas.

We may not like gringos for historical reasons, but today the world is dividing into commercial blocks, and we are handcuffed to each other for better or worse.

We always have been and we continue to be a colony of the United States.

1773 Boston Tea Party symbolizes start of American Revolution; impetus comes from American merchants trying to take control of distribution of goods that were being controlled exclusively by Britain 1776 American Declaration of Independence proclaims the colonies' rights to determine their own destiny,

particularly their own economic destiny

1776 Theory of modern capitalism and free trade expressed by Adam Smith in *The Wealth of Nations*; he theorized that countries would only produce and export goods that they were able to produce more cheaply than could trading partners; he demonstrates that mercantilists were wrong: It

is not gold or silver that will enhance the state, but the material that can be purchased with it

1783 Treaty of Paris officially ends the American Revolution following British surrender to American troops at Yorktown in 1781

1787 U.S. Constitution approved; it becomes a model document for constitutions for

at least the next two centuries; written constitutions will help stabilize many countries and encourage foreign investment and trade with them

1789 French Revolution begins; it will alter the power structure in Europe and help lead to the introduction of laws protecting the individual and to limited democracy in the region

Geography and Global Markets Geography, the study of Earth's surface, climate, continents,

countries, peoples, industries, and resources, is an element of the uncontrollable environment that confronts every marketer but that receives scant attention. ¹² The tendency is to study the aspects of geography as isolated entities rather than as important causal agents of the marketing environment. Geography is much more than memorizing countries, capitals, and rivers. It also includes an understanding of how a society's culture and economy are affected as a nation struggles to supply its people's needs within the limits imposed by its physical makeup. Thus, the study of geography is important in the evaluation of markets and their environment.

LO5

The effect of geographic diversity on economic profiles of a country

This section discusses the important geographic characteristics a marketer needs to consider when assessing the environmental aspects of marketing. Examining the world as a whole provides the reader with a broad view of world markets and an awareness of the effects of geographic diversity on the economic pro les of various nations. Climate and topography are examined as facets of the broader and more important elements of geography. A brief look at Earth's resources and population—the building blocks of world markets—completes the presentation on geography and global markets.

Climate and Topography

lopography

LO6

Why marketers need to be responsive to the geography of a country Altitude, humidity, and temperature extremes are climatic features that affect the uses and functions of products and equipment. Products that perform well in temperate zones may deteriorate rapidly or require special cooling or lubrication to function adequately in tropical zones. Manufacturers have found that construction equipment used in the United States requires extensive modi cations to cope with the intense heat and dust of the Sahara Desert. A Taiwanese company sent a shipment of drinking glasses to a buyer in the Middle East. The glasses were packed in wooden crates with hay used as dunnage to prevent breakage. The glasses arrived in shards. Why? When the crates moved to the warmer, less humid climate of the Middle East, the moisture content of the hay dropped signi cantly and shriveled to a point that it offered no protection.

Within even a single national market, climate can be sufficiently diverse to require major adjustments. In Ghana, a product adaptable to the entire market must operate effectively in extreme desert heat and low humidity and in tropical rainforests with consistently high humidity. Bosch-Siemens washing machines designed for European countries require spin cycles to range from a minimum spin cycle of 500 rpm to a maximum of 1,600 rpm: Because the sun does not shine regularly in Germany or in Scandinavia, washing machines must have a 1,600 rpm spin cycle because users do not have the luxury of hanging them out to dry. In Italy and Spain, however, clothes can be damp, because the abundant sunshine is sufficient to justify a spin cycle speed of 500 rpm.

Different seasons between the northern and southern hemispheres also affect global strategies. JCPenney had planned to open ve stores in Chile as part of its expansion into countries below the equator. It wanted to capitalize on its vast bulk buying might for its North American, Mexican, and Brazilian stores to provide low prices for its expansion into South America. After opening its rst store in Chile, the company realized that the plan was

1792 Gas lighting introduced; within three decades, most major European and U.S. cities will use gas lights

1804 Steam locomotive introduced; it will become the dominant form of transport of goods and people until the 20th century, when trucks and airplanes become commercially viable

1804 Napoleon crowns himself emperor, overthrowing the French revolutionary government, and tries to conquer Europe (after already occupying Egypt as a means of cutting off British trade with the East), the failure of which results in the redrawing of national boundaries in Europe and Latin America

1807 Robert Fulton's steamboat is the first to usher in a new age of transport when his *Clermont* sails from New York to Albany

1807 French Napoleonic Code issued and eventually becomes a model of civil law adopted by many nations around the world

1807 U.S. President Thomas Jefferson bans trade with Europe in an effort to convince warring British and French ships to leave neutral U.S. trading ships alone

1810 Frenchman Nicolas Appert successfully cans food and prevents spoilage

¹²The importance of geography in understanding global challenges that exist today is discussed in Harm J. DeBlij, *Why Geography Matters* (New York: Oxford University Press, 2005).



CROSSING BORDERS 3.2

Innovation and the Water Shortage, from Fog to Kid Power

When you live in Chungungo, Chile, one of the country's most arid regions with no nearby source of water, you drink fog. Of course! Thanks to a legend and resourceful Canadian and Chilean scientists, Chungungo now has its own supply of drinkable water after a 20-year drought. Before this new source of water, Chungungo depended on water trucks that came twice a week.

Chungungo has always been an arid area, and legend has it that the region's original inhabitants used to worship trees. They considered them sacred because a permanent flow of water sprang from the treetops, producing a constant interior rain. The legend was right—the trees produced rain! Thick fog forms along the coast. As it moves inland and is forced to rise against the hills, it changes into tiny raindrops, which are in turn retained by the tree leaves, producing the constant source of rain. Scientists set out to take advantage of this natural phenomenon.

The nearby ancient eucalyptus forest of El Tofo Hill provided the clue that scientists needed to create an ingenious water-supply system. To duplicate the water-bearing effect of the trees, they installed 86 "fog catchers" on the top of the hill—huge nets supported by 12-foot eucalyptus pillars, with water containers at their

base. About 1,900 gallons of water are collected each day and then piped into town. This small-scale system is cheap (about one-fifth as expensive as having water trucked in), clean, and provides the local people with a steady supply of drinking water.

In sub-Saharan Africa, inventive folks have come up with a new way to bring water up from wells. A life-changing and life-saving invention—the PlayPump water system—provides easy access to clean drinking water, brings joy to children, and leads to improvements in health, education, gender equality, and economic development in more than 1,000 rural villages in South Africa, Swaziland, Mozambique, and Zambia. The PlayPump systems are innovative, sustainable, patented water pumps powered by children at play. Installed near schools, the PlayPump system doubles as a water pump and a merry-go-round. The PlayPump system also provides one of the only ways to reach rural and peri-urban communities with potentially life-saving public health messages. Please see the accompanying pictures of a new solution to one of humankind's oldest problems. Sources: "Drinking Fog," World Press Review; "Silver Lining," The Economist, February 5, 2000, p. 75; "UNESCO Water Portal Weekly Update No. 89: Fog," April 15, 2005, http://www.unesco.org/water news/newsletter/89.shtml; http://www.playpumps.org, 2008; Aliah D. Wright, "Dive into Clean Water," HRMagazine 54, no. 6 (2009), p. 4.

not going to work—when it was buying winter merchandise in North America, it needed summer merchandise in South America. The company quickly sold its one store in Chile; its expansion into South America was limited to Brazil.¹³

Mountains, oceans, seas, jungles, and other geographical features can pose serious impediments to economic growth and trade. For example, mountain ranges cover South America's west coast for 4,500 miles, with an average height of 13,000 feet and a width of 300 to 400 miles. This natural, formidable barrier has precluded the establishment of commercial routes between the Paci c and Atlantic coasts. South America's natural barriers inhibit both national and regional growth, trade, and communication. Geographic hurdles have a direct effect on a country's economy, markets, and the related activities of

1810 Following Napoleon's invasion of Spain and Portugal, Simón Bolivar begins wars of independence for Spanish colonies in Latin America, leading to new governments in Bolivia, Columbia, Ecuador, Peru, and Venezuela
1814 First practical steam locomotive is built by George Stephenson in England, leading to the birth of railroad transportation

in 1825 with the first train carrying 450 passengers at 15 miles per hour

1815 Napoleon defeated at Battle of Waterloo and gives up throne days later

1815 British build roads of crushed stone, greatly improving the quality and speed of road travel

1817 David Ricardo publishes *Principles of Political Economy* and *Taxation*, in which he

proposes modern trade theory: Comparative advantage drives trade; countries will produce and export goods for which they have a *comparative* advantage as opposed to Adam Smith's *absolute* advantage (see 1776) **1821** Britain is first to adopt

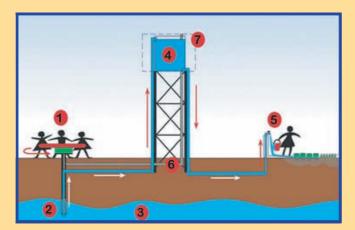
gold standard to back the value of its currency **1823** U.S. President James

Monroe promulgates the doctrine bearing his name that

declares the Americas closed to colonization in an attempt to assert U.S. influence over the region

1837 Reign of Britain's Queen Victoria begins; she oversees the growth of the British Empire and Britain's emergence as an industrial power (she dies in 1901)
1837 Electronic telegraph begins wide commercial use, transmitting information, including production orders, swiftly

¹³Miriam Jordan, "Penney Blends Two Business Cultures," *The Wall Street Journal*, April 5, 2001.





While children have fun spinning on the PlayPump merry-go-round, (1) clean water is pumped (2) from underground (3) into a 2,500-liter tank, (4) standing seven meters above the ground. A simple tap (5) makes it easy for adults and children to draw water. Excess water is diverted from the storage tank back down into the base hole (6). The water storage tank (7) provides rare opportunities to advertise to outlying communities. All four sides of the tank are leased as billboards, with two sides for consumer advertising and the other two sides for health and educational messages. The revenue generated from this unique model pays for pump maintenance. Capable of producing up to 1,400 liters of water per hour at 16 rpm from a depth of 40 meters, it is effective up to a depth of 100 meters. See http://www.playpumps.org. (right: © Frimmel Smith/PlayPump)

communication and distribution in China, Russia, India, and Canada as well. As countries seek economic opportunities and the challenges of the global marketplace, they invest in infrastructure to overcome such barriers. Once seen as natural protection from potentially hostile neighbors, physical barriers that exist within Europe are now seen as impediments to ef cient trade in an integrated economic union.

For decades the British resisted a tunnel under the English Channel—they did not trust the French or any other European country and saw the channel as protection. But when they became members of the European Union, economic reality meant the channel tunnel had to be built to facilitate trade with other EU members. Now you can take a bullet train through the Chunnel, but even a decade after it opened, its nances are still a bit shaky, ¹⁴ and recently, undocumented workers have tried to walk the underwater route to reach England. ¹⁵

1839 Process for recording negative images on paper is introduced in England, the precursor to modern film technology

1841 Briton David Livingstone begins 30 years of exploring in Africa

1842 Hong Kong ceded to Britain with the Treaty of Nanjing following the Opium War; the city will become a financial and trading center for Asia

1844 Chinese open five ports to U.S. ships

1847 First government-backed postage stamps issued by United States, leading to more certain and efficient communication by post **1848** John Stuart Mill publishes *Principles of Political Economy*, completing the modern theory of

trade by stating that gains

from trade are reflected in the strength of the *reciprocal* demand for imports and exports and that gains would come from better terms of trade (see 1817)

1848 The Communist Manifesto, by Germans Karl Marx and Friedrich Engels, is issued; it will become the basis for the communist movements of the 20th century

world's fair held in London, showcasing new technology 1856 Declaration of Paris recognizes the principle of free movement for trade, even in wartime—blockades could only extend along the enemy's coast; it also establishes the practice of allowing the accession to treaties of nations other than the original signatories

¹⁴Robert Lea, "Chunnel Rail Link Firm Heads for a Multi-Billion Break-Up," *Evening Standard*, November 1, 2007, p. 28.

¹⁵ "Illegals in the Chunnel," *Daily Express*, January 4, 2008, p. 39.

This advertisement provides the only time we have seen a human vomiting to market a product. The product advertised treats altitude sickness. The billboard appears in the Lima, Peru, airport, targeting tourists traveling from sea level to Cuzco and Machu Picchu (pictured in the scenic background). Cuzco, the old Inca capital, rises more than 11,000 feet in altitude, and many foreign tourists visiting there suffer this particular sort of tourista.



From the days of Hannibal, the Alps have served as an important physical barrier and provided European countries protection from one another. But with the EU expansion, the Alps became a major impediment to trade. Truck traf c between southern Germany and northern Italy, which choked highways through some of Switzerland's most treacherous mountain roads and pristine nature areas, was not only burdensome for all travelers but becoming economically unacceptable. The solution, the 21-mile Loetschberg Tunnel, which opened in 2007, burrows under the Alps and trims the time trains need to cross between Germany and Italy from a three-and-a-half-hour trip to less than two hours. By 2014, the 36-mile Gotthard Tunnel will provide additional rail coverage for the area and be the world's longest rail tunnel.

Geography, Nature, and Economic Growth

Always on the slim margin between subsistence and disaster, less-privileged countries suffer disproportionately from natural and human-assisted catastrophes. ¹⁶ The Haitian earthquake disaster of 2010 is perhaps the prominent example. Climate and topography coupled with civil wars, poor environmental policies, and natural disasters push these countries further into economic stagnation. Without irrigation and water management, droughts, oods, and soil erosion af ict them, often leading to creeping deserts that reduce the long-term fertility of the land. ¹⁷ Population increases, deforestation, and overgrazing intensify the impact of

1857 Russia and France sign trade treaty

1858 Ansei Commercial Treaties with Japan open the formerly closed country to trade with the West (treaties follow "opening" of Japan to the West by American Matthew Perry in 1854)

1860 The Cobden Treaty aims to create free trade by reducing or eliminating tariffs between Britain and France; also

leads to most-favored-nation status in bilateral agreements and eventually to multilateral agreements

1860 Passports are introduced in the United States to regulate foreign travel

1866 The principle of the electric dynamo is found by German Werner Siemens, who will produce the first electric power transmission system

1866 The trans-Atlantic cable is completed, allowing nearly instant (telegraphic) communication between the United States and Europe

1869 Suez Canal completed after 11 years of construction; the canal significantly cuts the time for travel between Europe and Asia, shortening, for example, the trip between Britain and India by 4,000 miles

1869 First U.S. transcontinental rail route is completed, heralding a boon for commerce; first commercially viable typewriter patented; until computer word processing becomes common more than a century later, the typewriter enables anyone to produce documents quickly and legibly

1873 United States adopts the gold standard to fix the international value of the dollar

¹⁶ Asia's Tsunami: Helping the Survivors," *The Economist*, January 5, 2005.

¹⁷See Map 2, "Global Climate," in the World Maps section for a view of the diversity of the world's climate. The climatic phenomenon of El Niño wreaks havoc with weather patterns and is linked to crop failures, famine, forest res, dust and sand storms, and other disasters associated with either an overabundance or a lack of rain.

drought and lead to malnutrition and ill health, further undermining these countries' abilities to solve their problems. Cyclones cannot be prevented, nor can inadequate rainfall, but means to control their effects are available. Unfortunately, each disaster seems to push developing countries further away from effective solutions. Countries that suffer the most from major calamities are among the poorest in the world. Many have neither the capital nor the technical ability to minimize the effects of natural phenomena; they are at the mercy of nature.

As countries prosper, natural barriers are overcome. Tunnels and canals are dug and bridges and dams are built in an effort to control or to adapt to climate, topography, and the recurring extremes of nature. Humankind has been reasonably successful in overcoming or minimizing the effects of geographical barriers and natural disasters, but as they do so, they must contend with problems of their own making. The construction of dams is a good example of how an attempt to harness nature for good has a bad side. Developing countries consider dams a cost-effective solution to a host of problems. Dams create electricity, help control oods, provide water for irrigation during dry periods, and can be a rich source of sh. However, there are side effects; dams displace people (the Three Gorges Dam in China will displace 1.3 million people¹⁹ while attracting tourists²⁰), and silt that ultimately clogs the reservoir is no longer carried downstream to replenish the soil and add nutrients. Similarly, the Narmada Valley Dam Project in India will provide electricity, ood control, and irrigation, but it has already displaced tens of thousands of people, and as the bene ts are measured against social and environmental costs, questions of its efficacy are being raised. In short, the need for gigantic projects such as these must be measured against their social and environmental costs.

As the global rush toward industrialization and economic growth accelerates, environmental issues become more apparent. Disruption of ecosystems, relocation of people, inadequate hazardous waste management, and industrial pollution are problems that must be addressed by the industrialized world and those seeking economic development. The problems are mostly byproducts of processes that have contributed signi cantly to economic development and improved lifestyles. During the last part of the 20th century, governments and industry expended considerable effort to develop better ways to control nature and to allow industry to grow while protecting the environment.

Social Responsibility and Environmental Management

Nations, companies, and people reached a consensus during the close of the last decade: Environmental protection is not an optional extra; it is an essential part of the complex process of doing business. Many view the problem as a global issue rather than a national issue and as one that poses common threats to humankind and thus cannot be addressed by nations in isolation. Of special concern to governments and businesses are ways to stem the tide of pollution and to clean up decades of neglect.

1875 Universal Postal Union created in Switzerland to provide for an international mail service
1876 Alexander Graham Bell is granted a patent for the telephone, which will revolutionize communications

1880 Thomas Edison creates first electric power station, after inventing the electric light in 1878, which lights New York City and starts a revolution in

culture and business—making a truly 24-hour day and paving the way for electronic machines

1881 Zoopraxiscope, which shows pictures in motion, is developed

1884 The basis for establishing standard time and measuring the longitude of any spot in the world is created with the designation of Greenwich,

England, as the prime meridian (0° longitude)

1886 American Federation of Labor founded, becoming a model for workers around the world to unite against management and gain higher pay and better working conditions

1901 Italian Guglielmo Marconi sends the first radio message; the radio could be said to spark the start of globalization because of the speed with which information is able to be transmitted

1903 First successful flight of an airplane, piloted by Orville Wright, takes place at Kitty Hawk, North Carolina

1904 First vacuum tube is developed by John Fleming, allowing alternating current to become direct current and

¹⁸"Water Shortage Fears in Darfur Camps," *All Africa*, December 10, 2007; "Northern Vietnam Likely to Face Water Shortages," *Xinhua News Agency*, January 4, 2008.

¹⁹Anita Chang, "China: Three Gorges Dam Impact Not That Bad," *Associated Press*, November 22, 2007. ²⁰"Tourist Arrivals to Three Gorges Dam Hit New High in 2007," *Asia Pulse*, January 8, 2008.

²¹Sandy Bauers, "Big Wake-Up to Global Warming," *Philadelphia Inquirer*, December 24, 2007, p. D1.

²²Visit http://www.gemi.org for information on the Global Environmental Management Initiative, an organization of U.S. multinational companies dedicated to environmental protection. Also see Keith Bradsher, "Hong Kong Utilities Agree to Pollution-Linked Rates," *The New York Times*, January 10, 2008, p. C4.





Two kinds of economic progress, one with great collateral damage and one with much less. Large trucks are dwarfed by the 185-meter sluice gates of the Three Gorges Dam. China began filling the reservoir in a major step toward completion of the world's largest hydroelectric project. The level is expected to reach 135 meters (446 feet), inundating thousands of acres, including cities and farms along the Yangtze River. The second picture depicts Mongolian men as they view a small section of a huge solar energy project in their region. Perhaps still an eyesore for the locals, at least it is relatively energy efficient. (AP/Wide World Photos)

Companies looking to build manufacturing plants in countries with more liberal pollution regulations than they have at home are nding that regulations everywhere have gotten stricter. Many governments are drafting new regulations and enforcing existing ones. Electronic products contain numerous toxic substances that create a major disposal problem in land lls where inadequate disposal allows toxins to seep into groundwater. The European Union, as well as other countries, has laws stipulating the amount and types of potentially toxic substances it will require a company to take back to recycle. A strong motivator is the realization that pollution is on the verge of getting completely out of control.

China is now the world's top polluter in almost all respects.²³ By 2020 its **greenhouse-gas emissions** will be more than double the closest rival, the United States. An examination of rivers, lakes, and reservoirs in China revealed that toxic substances polluted 21 percent and that 16 percent of the rivers were seriously polluted with excrement. China has 16 of the world's 20 most polluted cities.²⁴ The very process of controlling industrial wastes leads to another and perhaps equally critical issue: the disposal of hazardous waste, a byproduct of pollution controls. Estimates of hazardous wastes collected annually exceed 300 million tons; the critical issue is disposal that does not simply move the problem elsewhere. Countries encountering increasing

helping create widespread use of the radio

1913 Assembly line introduced by Henry Ford; it will revolutionize manufacturing
1914 The first war to involve much of the world begins with the assassination of Archduke Francis Ferdinand and lasts four years; construction of Panama Canal is completed, making trade faster and easier

1917 Lenin and Trotsky lead Russian revolution, creating a living economic model that will affect trade (adversely) for the rest of the century

1919 First nonstop trans-Atlantic flight completed, paving the way for cargo to be transported quickly around the globe

1920 League of Nations created, establishing a model

for international cooperation (though it failed to keep the

1923 Vladimir Zworykin creates first electronic television, which will eventually help integrate cultures and consumers across the world 1929 Great Depression starts with crash of U.S. stock market 1930 Hawley-Smoot Tar-

iff passed by U.S. Senate,

plunging the world deeper into the Great Depression

1935 Radar developed in Britain; it will allow travel on ships and planes even when there is no visibility, enabling the goods to keep to a transport schedule (eventually allowing the development of just-in-time and other cost-saving processes)

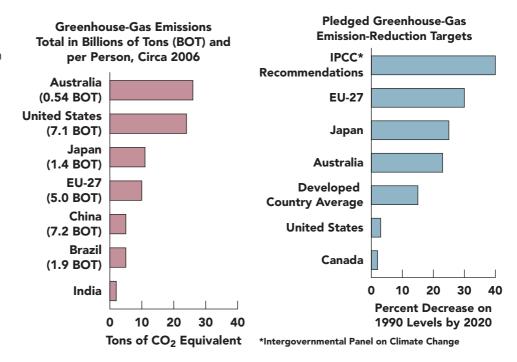
²³Sharon Begley, "Leaders of the Pack," *BusinessWeek*, November 30, 2009, pp. 46–51.

²⁴Jim Yardley, "Consultant Questions Beijing's Claim of Cleaner Air," *The New York Times*, January 10, 2008, p. A3.

Exhibit 3.3

A Comparison of Greenhouse-Gas Emission Rates and Pledges for Reductions

Source: Intergovernmental Panel on Climate Change



dif culty in the disposal of wastes at home are seeking countries willing to assume the burden of disposal. Waste disposal is legal in some developing countries as governments seek the revenues that are generated by offering sites for waste disposal. In other cases, illegal dumping is done clandestinely. A treaty among members of the Basel Convention that required prior approval before dumping could occur was later revised to a total ban on the export of hazardous wastes by developed nations. The in uence and leadership provided by this treaty are receted in a broad awareness of pollution problems by businesses and people in general.²⁵

Governments, organizations, and businesses are becoming increasingly concerned with the social responsibility and ethical issues surrounding the problem of maintaining economic growth while protecting the environment for future generations. However, the commitment made by governments and companies varies dramatically around the world. For example, with one of the highest pollution rates on a per capital basis, the United States lags behind almost all major competitors in agreeing to greenhouse emission standards (see Exhibit 3.3).²⁶ The Organization for Economic Cooperation and Development, the United Nations, the European Union, and international activist groups are undertaking programs to strengthen environmental policies.²⁷ In many ways China, because it has the most urgent and greatest pollution problems, is leading the charge in new green technology.²⁸ Many large

1938 American Chester
Carlson develops dry copying
process for documents (xerography), which, among other
things, will enable governments
to require that multiple forms
be filled out to move goods
1939 World War II begins
with German invasion of
Poland; over 50 million people
will die

1943 The first programmable computer, Colossus I, is created in England at Bletchley Park; it helps to crack German codes

1944 Bretton Woods Conference creates basis for economic cooperation among 44 nations and the founding of the International Monetary Fund to help stabilize exchange rates

1945 Atomic weapons introduced; World War II ends; United Nations founded
1947 General Agreement on Tariffs and Trade signed by 23 countries to try to reduce barriers to trade around the world

1948 Transistor is invented; it replaces the vacuum tube, starting a technology revolution

1949 People's Republic of China founded by Mao Zedong, which will restrict access to the largest single consumer market on the globe 1957 European Economic Community (EEC) established by Belgium, France, West Germany, Italy, Luxembourg, and the Netherlands, the precursor to today's European Union

²⁵For a comprehensive view of OECD programs, including environmental issues, visit http://www.oecd.org. ²⁶ Closing the Gaps," *The Economist*, December 5, 2009, pp. 18–19.

William C. Clark, "Science and Policy for Sustainable Development," *Environment*, January–February 2005.
 Shai Oster, "World's Top Polluter Emerges as Green-Technology Leader," *The Wall Street Journal*, December 15, 2009, online.

Here in São Paulo, Shell sells two kinds of fuel: alcohol made primarily from sugarcane and gasoline made from dirtier fossil fuels. Flexible-fuel engines in Brazilian cars can burn either kind of fuel or any mixture of the two. Although the price per liter is quite different, so is the mileage per liter. Brazilians make their choice of fuel based on the kind of driving they anticipate, city versus highway.



multinational companies such as Petrobras,²⁹ Walmart,³⁰ and Nike are not only cleaning up their own operations around the world but also pushing their suppliers to do the same.

The issue that concerns everyone is whether economic development and protection for the environment can coexist. **Sustainable development** is a joint approach among those (e.g., governments, businesses, environmentalists, and others) who seek economic growth with "wise resource management, equitable distribution of bene ts and reduction of negative effects on people and the environment from the process of economic growth." Sustainable development is not about the environment or the economy or society. It is about striking a lasting balance between all of these. More and more companies are embracing the idea of sustainable development as a "win—win" opportunity.³¹ Responsibility for protecting the environment does not rest solely with governments, businesses, or activist groups; however, each citizen has a social and moral responsibility to include environmental protection among his or her highest goals.³² This idea is particularly a problem in the United States, where consumers are often more interested in style than in sustainability,³³ public opinion polls favor growth over the environment,³⁴ and

1961 Berlin Wall is erected, creating Eastern and Western Europe with a physical and spiritual barrier

1964 Global satellite communications network established with INTELSAT (International Telecommunications Satellite Organization)

1965 Unsafe at Any Speed published by Ralph Nader, sparking a revolution in

consumer information and rights

1967 European Community (EC) established by uniting the EEC, the European Coal and Steel Community, and the European Atomic Energy Community

1971 First microprocessor produced by Intel, which leads to the personal computer; communist China joins the

United Nations, making it a truly global representative body

1971 United States abandons gold standard, allowing the international monetary system to base exchange rates on perceived values instead of ones fixed in relation to gold

1972 One billion radios on the planet

1973 Arab oil embargo jolts industrial world into understanding the totally global nature of supply and demand

1980 CNN founded, providing instant and common information the world over, taking another significant step in the process of globalization started by the radio in 1901

²⁹Jose Sergio Gabrielli de Azevedo, "The Greening of Petrobras," *Harvard Business Review*, March 2009, pp. 43–47.

³⁰Adam Aston, "Wal-Mart's Green Stock," BusinessWeek, May 25, 2009, p. 44.

³¹Visit http://www.oecd.org, the OECD Web site, for a directory and complete coverage of sustainable development.

³²Visit http://www.webdirectory.com for the *Amazing Environmental Organization Web Directory*, a search engine with links to an extensive list of environmental subjects.

³³Burt Helm, "Nike Goes Green, Very Quietly," BusinessWeek, June 22, 2009, p. 56.

³⁴"Who Cares?" *The Economist*, December 5, 2009, p. 15.

A huge offshore discovery has the potential to make Brazil a new major petroleum exporter through its national oil company, Petrobras.³⁵

(The New York Times, January 11, 2008, p. C1; © Edro Lobo/ Bloomberg News/Landov)



high school students receive relatively little environmental education.³⁶ A recent study has also shown that governments with pluralistic constituencies may have relatively more trouble persuading important minority groups to agree to their environmental efforts.³⁷

Resources

The availability of minerals³⁸ and the ability to generate energy are the foundations of modern technology. The locations of Earth's resources, as well as the available sources of energy, are geographic accidents. The world's nations are not equally endowed, and no nation's demand for a particular mineral or energy source necessarily coincides with domestic supply.

In much of the underdeveloped world, human labor provides the preponderance of energy. The principal supplements to human energy are animals, wood, fossil fuel, nuclear power, and, to a lesser and more experimental extent, the ocean's tides, geothermal power, and the sun. Of all the energy sources, oil and gas contribute over 60 percent of world energy consumption.³⁹ Because of petroleum's versatility and the ease with which it is stored and transported, petroleum-related products continue to dominate energy usage.⁴⁰ (See Exhibit 3.4.)

1987 ISO issues ISO 9000 to create a global quality standard1988 One billion televisions on the planet

1989 Berlin Wall falls, symbolizing the opening of the East to the West for ideas and commerce

1991 Soviet Union formally abandons communism, as most formerly communist states move toward capitalism and

the trade it fosters; Commonwealth of Independent States (CIS) established among Russia, Ukraine, and Belarus
1993 NAFTA ratified by U.S. Congress; European Union created from the European Community, along with a framework for joint security and foreign policy action, by the 1991 Maastricht Treaty on

European Union; the EEC is renamed the EC

1994 The Chunnel (Channel Tunnel) is opened between France and Britain, providing a ground link for commerce between the continent and Britain

1995 World Trade Organization (WTO) set up as successor of GATT; by 2000 more than

130 members will account for over 90 percent of world trade.
1997 Hong Kong, a world trading and financial capital and bastion of capitalism, is returned to communist Chinese control; *Pathfinder* lands on Mars, and *Rover* goes for a drive but finds no one with whom to trade

³⁵Alexi Barrinuevo, "Hot Prospect for Oil's Big League," *The New York Times*, January 11, 2008, pp. C1, C4.

³⁶ "Are U.S. Teenagers 'Green' Enough?" *Chronicle of Higher Education*, November 20, 2009, p. A4.

³⁷Amir Grinstein and Udi Nisan, "Demarketing, Minorities, and National Attachment," *Journal of Marketing* 73, no. 2 (2009), pp. 105–22.

³⁸"Global Copper Shortage Reaches 340,000t in H1," *China Industry Daily News*, September 21, 2007.

³⁹Visit http://www.eia.doe.gov and search for "International Energy Outlook (most current year)" for details of production, use, and so forth.

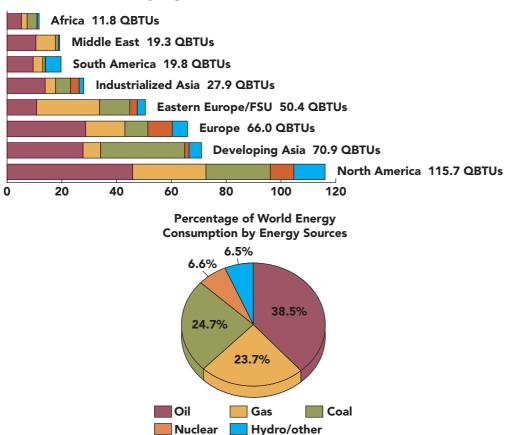
⁴⁰See Map 3, "Oil and Gas Production and Consumption," for a global view of the ow and uses of petroleum.

Exhibit 3.4

World Energy Consumption

Energy consumed by world regions, measured in quadrillion BTUs in 2001. Total world consumption was 381.8 quadrillion BTUs. The largest portion of the hydro/other category is hydroelectrical energy. Fuels such as wood, peat, animal waste, wind, solar, and geothermal account for less than 1.0 quadrillion BTUs in the other portion of the hydro/other category.

Total World Energy Consumption By Region and Fuel (Quadrillion BTU)



Sources: Data compiled from "Introduction to World Geography," Oxford Atlas of the World (New York: Oxford University Press, 2003) and Energy Information Administration (EIA), International Energy Outlook 2004 (Washington, DC, 2005), http://www.eia.doe.gov/oiaf/ieo.

Many countries that were self-suf cient during much of their early economic growth have become net importers of petroleum during the past several decades and continue to become increasingly dependent on foreign sources. A spectacular example is the United States, which was almost completely self-suf cient until 1942, became a major importer by 1950, and between 1973 and 2000 increased its dependency from 36 percent to over 66 percent of its annual requirements. If present rates of consumption continue, predictions are that by the mid-2000s the United States will be importing more than 70 percent

1999 Euro introduced in 11
European Union nations, paving the way for the creation of a true trade union and trade bloc
1999 Seattle Round of WTO negotiations pits the United
States versus the European
Union, in the first great protest against globalization
1999 Control of the Panama
Canal, a major trade lane, is returned to Panama

2000 Second millennium arrives, predicted computer problems are a non-event 2001 September 11 terrorist attack on the World Trade Center in New York City and the Pentagon in Washington, DC; one billion mobile phones on the planet 2002 United States attacks Taliban in Afghanistan

in Iraq
2004 Great Indian Ocean
tsunami kills 500,000 people
2006 One billion personal
computers on the planet
2008 Beijing hosts the
Olympics

2003 United States attacks

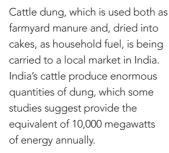
regime of Saddam Hussein

2009 Great Recession causes largest decline in world

trade since World War II; even so, almost 4 billion mobile phone subscribers around the globe

2010 Earthquake in Haiti kills more than 200,000 people 2040 The United Nations' earliest estimate for the world population to begin shrinking due to the global decline of fertility







This Masai woman of Tanzania put to good use both cow dung and urine in building her hut pictured here in her family village (or boma). The semi-nomadic Masai graze their cattle during the day but enclose them within the acacia bush boma at night to protect them from predators.

of its needs, that is, more than 17 million barrels of oil each day. Exhibit 3.4 compares North American domestic energy consumption with other world regions. It is interesting to note that though North America is currently a major consumer of energy, industrializing Asia and the three industrialized areas (as shown in Exhibit 3.4) do not lag far behind. In fact, China has become the world's second-largest oil importer after the United States, and demand continues to grow rapidly.⁴¹

Since World War II, arguments about the limitless availability of seemingly inexhaustible supplies of petroleum have been prominent. ⁴² The dramatic increase in economic growth in the industrialized world and the push for industrialization in the remaining world have put tremendous pressure on Earth's energy resources. Unfortunately, as countries industrialize, energy sources are not always ef ciently utilized. China, for example, spends three times the world average on energy (all sources) to produce one dollar of gross national product (GNP). In comparison with Japan, possibly the world's most ef cient user of energy, where less than 5 ounces of oil is needed to generate \$1 in GNP, in China, approximately 80 ounces of oil is needed. ⁴³ The reasons for China's inef cient oil use are numerous, but the worst culprit is outdated technology. ⁴⁴

The growth of market-driven economies and an increasing reliance on petroleum supplies from areas of political instability—the Middle East, the former Soviet Union, and Latin America—create a global interdependence of energy resources. The net result is a profound impact on oil prices and on the economies of industrialized and industrializing countries.

⁴¹Koh Chin Ling and Loretta Ng, "China's Crude Oil Imports Surge in March," *International Herald Tribune*, April 22, 2005.

⁴²Stanley Reed, "Endless Oil," BusinessWeek, January 18, 2010, pp. 47–49.

⁴³"Lessons from a Miser," *BusinessWeek*, April 11, 2005, p. 51.

^{44&}quot;Wasteful Ways," BusinessWeek, April 11, 2005, p. 50.

The location, quality, and availability of resources will affect the pattern of world economic development and trade well into the 21st century. In addition to the raw materials of industrialization, an economically feasible energy supply must be available to transform resources into usable products. As the global demand for resources intensi es and prices rise, resources will continue to increase in importance among the uncontrollable elements of the international marketer's decisions.

Dynamics of Global Population Trends Current population, rural/urban population shifts,

rates of growth, age levels, and population control help determine today's demand for various categories of goods. ⁴⁵ Although not the only determinant, the existence of sheer numbers of people is signi cant in appraising potential consumer markets. Changes in the composition and distribution of population among the world's countries will profoundly affect future demand. Moreover, it now appears that demand for goods worldwide can affect migration patterns as well, in a reversal of the traditional causal relationship. Speci cally, the global nancial crisis that began in 2008 appears to have caused a (perhaps temporary) reversal of migrations from urban to rural areas within countries and from developed back to developing countries internationally as employment opportunities dry up in response to the decline in demand for goods and services worldwide. ⁴⁶

Recent estimates place world population at more than 6.8 billion people, a number expected to grow to about 8 billion by 2050. However, seemingly small differences in assumptions about fertility rates can make big differences in growth forecasts. One possible scenario put forth by United Nations experts suggests the planet's population may peak at about 8 billion and then begin to decline after 2040. All scenarios agree though that almost all of the projected growth up to 2050 will occur in less developed regions.⁴⁷ Exhibit 3.5 shows that 85 percent of the population will be concentrated in less developed regions by 2050. The International Labor Organization estimates that 1.2 billion

Exhibit 3.5

World Population by Region, 2009–2050, and Life Expectancy at Birth, 2005–2010 (millions)

Source: World Population Prospects, The 2008 Revision, United Nations Economic and Social Affairs, www .unpopulation.org, 2010. Reprinted with permission.

| | Population (in millions) | | Life Expectancy at Birth | |
|--------------------------|-----------------------------|-------|-----------------------------|--|
| Regions | 2009 | 2050* | 2005–2010 | |
| World | 6,829 | 7,959 | 67.2 | |
| More developed regions** | 1,233 | 1,126 | 77.1 | |
| Less developed regions† | 5,596 | 6,833 | 65.6 | |
| Least developed regions‡ | 835 | 1,463 | 55.9 | |
| Africa | 1010 | 1,748 | 54.1 | |
| Asia | 4,121 | 4,533 | 68.9 | |
| Europe | 732 | 609 | 75.1 | |
| Latin America | 582 | 626 | 73.4 | |
| Northern America | 348 | 397 | 79.3 | |
| Oceania | 35 | 45 | 76.2 | |

^{*}Lowest estimate among three provided.

⁴⁵A book written in 1998 predicted the Great Recession of 2008–2009 ten years in advance, based on demographic projections of consumer demand. For a very interesting read, see Harry S. Dent, *The Roaring 2000s* (Touchstone: New York, 1998); also see John L. Graham, "2020 Is 23 Years from Now," *UCInsight*, Spring 1997, pp. 3, 13 for a similar, demographics-based prediction.

⁴⁶Patrick Barta and Joel Millman, "The Great U-Turn," The Wall Street Journal, June 6, 2009, p. A1.

⁴⁷See *World Population Prospects, The 2008 Revisions*, United Nations Economic and Social Affairs, http://www.unpopulation.org, 2010.

^{**}More developed regions comprise all regions of Europe and Northern America, Australia, New Zealand, and Japan.

†Less developed regions comprise all regions of Africa, Asia (excluding Japan), and Latin America and the regions of Melanesia. Micronesia, and Polynesia.

Least developed regions, as defined by the United Nations General Assembly, include 48 countries, of which 33 are in Africa, 9 in Asia, 1 in Latin America, and 5 in Oceania. They are also included in the less developed regions.

jobs must be created worldwide to accommodate these new entrants through 2025. Furthermore, most of the new jobs will need to be created in urban areas where most of the population will reside.

Controlling Population Growth

LO7

The economic effects of controlling population growth and aging populations

Faced with the ominous consequences of the population explosion, it would seem logical for countries to take steps to reduce growth to manageable rates, but procreation is one of the most culturally sensitive uncontrollable factors. Economics, self-esteem, religion, politics, and education all play critical roles in attitudes about family size. All these considerations make the impact of China's long-term enforcement of its one-child policies most remarkable.⁴⁸

The prerequisites to population control are adequate incomes, higher literacy levels, education for women, universal access to healthcare, family planning, improved nutrition, and, perhaps most important, a change in basic cultural beliefs regarding the importance of large families. Unfortunately, minimum progress in providing improved living conditions and changing beliefs has occurred. India serves as a good example of what is happening in much of the world. India's population was once stable, but with improved health conditions leading to greater longevity and lower infant mortality, its population will exceed that of China by 2050, when the two will account for about 50 percent of the world's inhabitants.⁴⁹ The government's attempts to institute change are hampered by a variety of factors, including political ineptitude⁵⁰ and slow changes in cultural norms. Nevertheless, the government continues to pass laws with the intended purpose of limiting the number of births. A novel example was a law that bars those with more than two children from election to the national Parliament and state assemblies. This rule would mean that many now in of ce could not seek reelection because of their family size.⁵¹

Perhaps the most important deterrent to population control is cultural attitudes about the importance of large families. In many cultures, the prestige of a man, whether alive or dead, depends on the number of his progeny, and a family's only wealth is its children. Such feelings are strong. Prime Minister Indira Gandhi found out how strong when she attempted mass sterilization of men, which reportedly was the main cause of her defeat in a subsequent election. Additionally, many religions discourage or ban family planning and thus serve as a deterrent to control. Nigeria has a strong Muslim tradition in the north and a strong Roman Catholic tradition in the east, and both faiths favor large families. Most traditional religions in Africa encourage large families; in fact, the principal deity for many is the goddess of land and fertility.

Family planning and all that it entails is by far the most universal means governments use to control birthrates, but some economists believe that a decline in the fertility rate is a function of economic prosperity and will come only with economic development. Ample anecdotal evidence suggests that fertility rates decline as economies prosper. For example, before Spain's economy began its rapid growth in the 1980s, families had six or more children; now, Spain has one of the lowest birthrates in Europe, an average of 1.24 children per woman. Similar patterns have followed in other European countries as economies have prospered.

Rural/Urban Migration

Migration from rural to urban areas is largely a result of a desire for greater access to sources of education, healthcare, and improved job opportunities.⁵² In the early 1800s, less than 3.5 percent of the world's people were living in cities of 20,000 or more and less than

⁴⁸Maureen Fan, "Of cials Violating 'One-Child' Policy Forced Out in China," *Washington Post*, January 8, 2008, p. A16.

⁴⁹"India to Surpass China in Population," ExpressIndia, May 18, 2005.

⁵⁰Anand Giridharadas, "A Buoyant India Dares to Ask: Is a Billion So Bad?" International Herald Tribune, May 4, 2005.

⁵¹V. K. Paghunathan, "3 Tykes and You're Out," Straits Times, April 11, 2003.

⁵²Tor Ching Li, "Urban Migration Drains Asian Coffee Farms' Work Force," *Dow Jones Commodities Service*, December 13, 2007.

2 percent in cities of 100,000 or more; today, more than 40 percent of the world's people are urbanites, and the trend is accelerating. Once in the city, perhaps three out of four migrants achieve some economic gains.⁵³ The family income of a manual worker in urban Brazil, for example, is almost ve times that of a farm laborer in a rural area.

By 2030, estimates indicate that more than 61 percent of the world's population will live in urban areas (up from 49 percent in 2005, with similar changes across all regions), and at least 27 cities will have populations of 10 million or more, 23 of which will be in the less developed regions. Tokyo has already overtaken Mexico City as the largest city on Earth, with a population of 26 million, a jump of almost 8 million since 1990.

Although migrants experience some relative improvement in their living standards, intense urban growth without investment in services eventually leads to serious problems. Slums populated with unskilled workers living hand to mouth put excessive pressure on sanitation systems, water supplies,⁵⁴ and social services. At some point, the disadvantages of unregulated urban growth begin to outweigh the advantages for all concerned.

Consider the conditions that exist in Mexico City today. Besides smog, garbage, and pollution brought about by its increased population, Mexico City faces a severe water shortage. Local water supplies are nearly exhausted and in some cases are unhealthy. Water consumption from all sources is about 16,000 gallons per second, but the underground aquifers are producing only 2,640 gallons per second. Water comes from hundreds of miles away and has to be pumped up to an elevation of 7,444 feet to reach Mexico City. Such problems are not unique to Mexico; throughout the developing world, poor sanitation and inadequate water supplies are consequences of runaway population growth. An estimated 1.1 billion people are currently without access to clean drinking water, and 2.8 billion lack access to sanitation services. Estimates are that 40 percent of the world's population, 2.5 billion people, will be without clean water if more is not invested in water resources. Prospects for improvement are not encouraging, because most of the world's urban growth will take place in the already economically strained developing countries.

Population Decline and Aging

While the developing world faces a rapidly growing population,⁵⁶ the industrialized world's population is in decline and rapidly aging.⁵⁷ Birthrates in western Europe and Japan have been decreasing since the early or mid-1960s; more women are choosing careers instead of children, and many working couples are electing to remain childless. As a result of these and other contemporary factors, population growth in many countries has dropped below the rate necessary to maintain present levels. Just to keep the population from falling, a nation needs a fertility rate of about 2.1 children per woman. Not one major country has sufcient internal population growth to maintain itself, and this trend is expected to continue for the next 50 years.

At the same time that population growth is declining in the industrialized world,⁵⁸ there are more aging people today than ever before.⁵⁹ Global life expectancy has grown more in the past 50 years than over the previous 5,000 years. Until the Industrial Revolution, no more than 2 or 3 percent of the total population was over the age of 65 years. Today in the developed world, the over-age-65 group amounts to 14 percent, and by 2030, this group will reach 25 percent in some 30 different countries. Furthermore, the number of "old old"

⁵³Diane Mosher, "Chinese Urban Migration Creates Opportunities for International Urban Planners," Multi-Housing News, April 2, 2007.

⁵⁴ China Faces Worsening Water Woes," *Chicago Sun-Times*, March 24, 2005.

⁵⁵"Nation Faces Water Shortage," El Universal (Mexico City), March 23, 2005.

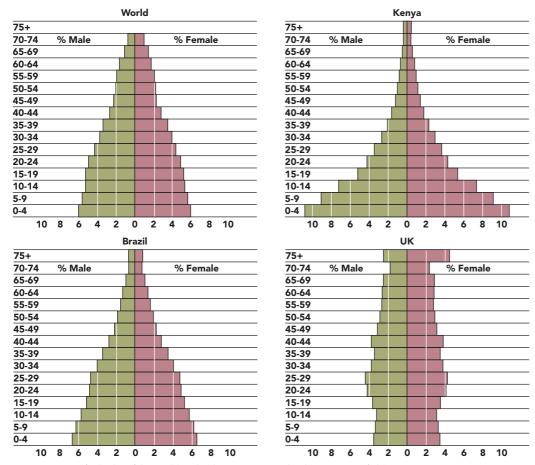
⁵⁶Gerald Tenywa and Ben Okiror, "Population Growth Highest around Lake Victoria," *All Africa*, November 1, 2007.

⁵⁷There are apparent exceptions; see "Finland Sees Record-High Population Growth in 2007," *Xinhua News Agency*, January 1, 2008.

⁵⁸"Russia's Population Shrinks by 208,000 in 10 Months," Russia & CIS Newswire, December 21, 2007.

⁵⁹ China Population Ageing Rapidly," Associated Press Newswires, December 17, 2007.

Exhibit 3.6Age Density for World and Selected Countries



Source: From Oxford Atlas of the World, 10th ed., 2002. Reprinted with permission of Philip Maps.

will grow much faster than the "young old." The United Nations projects that by 2050, the number of people aged 65 to 84 years worldwide will grow from 400 million to 1.3 billion (a threefold increase), while the number of people aged 85 years and over will grow from 26 million to 175 million (a sixfold increase)—and the number aged 100 years and over will increase from 135,000 to 2.2 million (a sixteenfold increase). Exhibit 3.6 illustrates the disparity in aging that is typical among less developed countries (Kenya), developing countries (Brazil), and an economically developed country (United Kingdom). Countries like Kenya, with a high proportion of young people, face high education and healthcare costs, whereas countries like the United Kingdom, with top-heavy population pyramids, face high pension and healthcare costs for the elderly with fewer wage earners to bear the burden.

Europe, Japan, and The United States epitomize the problems caused by an increasing percentage of elderly people who must be supported by a declining number of skilled workers. In 1998, Japan crossed a threshold anticipated with fear by the rest of the developed world: The point at which retirees withdrawing funds from the pension system exceeded the workers contributing to it. The elderly require higher government outlays for healthcare and hospitals, ⁶⁰ special housing and nursing homes, and pension and welfare assistance, but the workforce that supports these costs is dwindling. The part of the world with the largest portion of people over 65 years is also the part of the world with the

⁶⁰Ben Shankland, "Government of Colombia Tries to Sell Beleaguered Hospital Again," *Global Insight Daily Analysis*, December 19, 2007.



Where Have All the Women Gone?

Three converging issues in China have the potential of causing a serious gender imbalance:

- China, the world's most populous country, has a strict one-child policy to curb population growth.
- Traditional values dictate male superiority and a definite parental preference for boys.
- Prenatal scanning allows women to discover the sex of their fetuses and thereby abort unwanted female fetuses.

The first wave of children born under the one-child policy is reaching marriageable age, and there are far too few brides to go around. The ratio of males to females is unnaturally high, hovering around 118 boys for every 100 girls in 2005. Thus, men in their 20s have to deal with the harsh reality of six bachelors for every five potential brides. So what is a desperate bachelor to do?

The shortage has prompted some parents to acquire babies as future brides for their sons. Infants are considered more appealing because they are less likely to run away, will look on their buyers as their own parents, and are cheaper than buying a teenage bride. Buying a baby girl can cost as little as \$100 and won't result in the fines imposed on couples who violate birth control limits. Such fines can equal as much as six years' income.

Another alternative is to marry a relative. At age 20 years, with his friends already paired off, Liu found himself the odd man out. His parents, farmers in a small backwater village, could not raise the \$2,000 required to attract a bride for their son. Desperate, Liu's mother asked her sister for a favor: Could she ask Hai, her daughter, to be Liu's bride? Young women like Hai are not likely to defy their parents. And so Liu and Hai were wed.

Chinese officials are starting to worry about the imbalance and have announced a raft of new programs to reverse the trend. These offers include cash payments for couples who have a daughter and let her live, along with privileges in housing, employment, and job training. Some families with girls will also be exempt from paying school fees. Even though the government staunchly defends its one-child policy, it is experimenting with allowing couples whose first-born is a girl to have a second child. In the meantime and until the new policy results in more girls, today's 20-year-old men will just have to compete if they want a wife.

Sources: Nicholas Zamiska, "China's One-Child Policy Gets Wider Enforcement," *The Wall Street Journal Asia*, January 8, 2008, p. 10; Mark R. Rosenzweig and Junse Zhang, "Do Population Control Policies Induce More Human Capital Investment?" *Review of Economic Studies* 76, no. 3 (2009), pp. 1149–74.

fewest number of people under age 15 years. This disparity means that there will be fewer workers to support future retirees, resulting in an intolerable tax burden on future workers, more of the over-65 group remaining in the labor force, or pressure to change existing laws to allow mass migration to stabilize the worker-to-retiree ratio. No one solution is without its problems.⁶¹

Worker Shortage and Immigration

For most countries, mass immigration is not well received by the resident population. However, a recent report from the United Nations makes the strongest argument for change in immigration laws as a viable solution. The free ow of immigration will help ameliorate the dual problems of explosive population expansion in less developed countries and worker shortage in industrialized regions. Europe is the region of the world most affected by aging and thus by a steadily decreasing worker-to-retiree ratio. The proportion of older persons will increase from 20 percent in 1998 to 35 percent in 2050. The country with the largest share of old people will be Spain, closely followed by Italy. Recognizing the problem, Spain has changed immigration laws to open its borders to all South Americans of Spanish descent. To keep the worker-to-retiree ratio from falling, Europe will need 1.4 billion immigrants over the next 50 years, while Japan and the

⁶¹J. T. Young, "Failure of Social Security Reform Mustn't Derail Personal Accounts," *Investor's Business Daily*, January 3, 2008.

⁶²"Russian Immigration Rules Could Cause Worker Shortage," *Associated Press, Charleston Gazette*, January 16, 2007, p. P2D.

⁶³"Spain Grants Amnesty to 700,000 Migrants," Guardian Unlimited, May 9, 2005.



History, Geography, and Population Collide in America: Returning to Multigenerational Family Living

As pension systems, healthcare systems, and retirement plans continue to crumble under the weight of Baby Boom numbers, we all will need to rely more on the strength of family ties and remember the fundamental human characteristic of interdependence. The problem is that such remembrance is particularly hard for Americans, as opposed to all other peoples on the planet.

America started with The Declaration of Independence. On July 4, 1776, the founding fathers broke from the tyranny of England to form a new country. That document and the idea of independence represent the essence of being American and literally the most celebrated notion of the nation. Indeed, the goal of mainstream American parenting is to inculcate this notion into the thinking of children: We ensure they make their own beds, make their own lunches, wash their own clothes, do their own homework, drive their own cars, and so forth. How else can they become independent adults?

There are at least three problems with this American obsession with independence. First, it stigmatizes the burgeoning numbers of both boomerang kids and grandparents living with their grandchildren as families across America smartly reunite. According to the most recent U.S. Census figures, there are 22 million adult

children living with their parents and 6 million grandparents living in three-generation households, and both numbers are growing fast. Second, teaching independence actually hasn't worked anyway, as we will see next. And third, there is really no such thing as independence anyway. There is only interdependence.

This American overemphasis on independence is now being recognized by the most independent-minded of all Americans, CEOs. In Bill George's wonderful book, Authentic Leadership, he argues that the job of chief executive depends on six constituencies. Without surprise, the former CEO of Medtronic lists shareholders, employees, customers, vendors, and the larger community. But what is unique, and perhaps even revolutionary, in his list is his own family. He recognizes that his own success as a CEO in part depended of the quality of his family life. Thus, he organized his executive team and responsibilities such that he had time to attend kids's soccer matches and such. Remarkable!

Source: Sharon G. Niederhaus and John L. Graham, *Together Again*, A *Creative Guide* to *Multigenerational Living* (Lanham, MD: Evans, 2007); Sandra Timmerman, "Generational Reciprocity: What Does It Mean in the 21st Century?" *Journal of Financial Service Professionals* 63, no. 5 (2009), pp. 25–27; "Boomers: New Social Media Mavins," *Research Brief, Center for Media Research*, January 26, 2010, online.

United States⁶⁴ will need 600 million immigrants between now and 2050. Immigration will not help ameliorate the problem though if political and cultural opposition to immigration cannot be overcome.

The trends of increasing population in the developing world, with substantial shifts from rural to urban areas, declining birthrates in the industrialized world, and global population aging, will have profound effects on the state of world business and world economic conditions. Without successful adjustments to these trends, many countries will experience slower economic growth, serious nancial problems for senior retirement programs, and further deterioration of public and social services, leading to possible social unrest.

World Trade Routes Trade routes bind the world together, minimizing distance, natural barriers, lack of

resources, and the fundamental differences between peoples and economies. As long as one group of people in the world wants something that another group somewhere else has and there is a means of travel between the two, there is trade. Early trade routes were over land; later came sea routes, air routes, and, nally, some might say, the Internet to connect countries.

⁶⁴"US Tech Sector Eyes Immigration Bill Revival, Cites Worker Shortage," *Agence France-Presse*, June 9, 2007.

Climate change opens up a new trade route that may compete with the Panama Canal, cutting costly days off the travel time between Western Europe and Asia. Here a German commercial vessel follows a Russian icebreaker through the proverbial Northwest Passage.



Trade routes among Europe, Asia, and the Americas were well established by the 1500s. The Spanish empire founded the city of Manila in the Philippines to receive its silver-laden galleons bound for China. On the return trip, the ship's cargo of silk and other Chinese goods would be of oaded in Mexico, carried overland to the Atlantic, and put on Spanish ships to Spain. What we sometimes fail to recognize is that these same trades routes remain important today and that many Latin American countries have strong relationships with Europe, Asia, and the rest of the world that date back to the 1500s. The commodities traded have changed between the 1500s and today, but trade and the trade routes continue to be important. Today, instead of of oading goods in Mexico and carrying them on mule carts overland to the Atlantic, ships travel from the Paci c to the Atlantic via the Panama Canal. And ships too large for the canal of oad their containers onto a railroad that crosses the Isthmus of Panama to be met by another container ship.65

Trade routes represent the attempts of countries to overcome economic and social imbalances created in part by the in uence of geography. The majority of world trade is among the most industrialized and industrializing countries of Europe, North America, and Asia. It is no surprise that the trade ow, as depicted in Map 8 at the end of this chapter, links these major trading areas.

LO8

Communication infrastructures are an integral part of international commerce

Communication Links An underpinning of all commerce is effective communications—knowledge of where goods and services exist and where they are needed and the ability to communicate instantaneously across vast distances. Continuous improvements in electronic communications have facilitated the expansion of trade. First came the telegraph, then the telephone, television, satellites, mobile phones, 66 the computer, the Internet, and combinations of them all.⁶⁷ Map 5 in the following pages illustrates the importance of ber optic cable and satellites in providing global communications. Each revolution in technology has had a profound effect on human conditions, economic growth, and the manner in which commerce

⁶⁵"Panama Canal Expansion Gets Environmental Approval," *Journal of Commerce Online*, November 13, 2007. 664 Mobil Marvels, A Special Report on Telecoms in Emerging Markets," The Economist, September 26, 2009, pp. 1-19.

⁶⁷Rajesh Veeraraghavan, Naga Yasodhar, and Kentaro Toyama, "Warana Unwired: Replacing PCs with Mobile Phones in a Rural Sugar Cane Cooperative," Information Technologies & International Development 5, no. 1 (2009), pp. 81–95.

functions. Each new communications technology has spawned new business models; some existing businesses have reinvented their practices to adapt to the new technology, while other businesses have failed to respond and thus ceased to exist. The Internet and mobile phone revolutions will be no different; they too affect human conditions, economic growth, and the manner in which commerce operates. As we discuss in subsequent chapters, the combination of the Internet and the dramatic increase in the mobile phone subscribers worldwide has already begun to shape how international business is managed. However, as the combinations of new technologies permeate the fabric of the world's cultures, the biggest changes are yet to come!⁶⁸

Summary

One British authority admonishes foreign marketers to study the world until "the mere mention of a town, country, or river enables it to be picked out immediately on the map." Although it may not be necessary for the student of foreign marketing to memorize the world map to that extent, a prospective international marketer should be reasonably familiar with the world, its climate, and topographic differences. Otherwise, the important marketing characteristics of geography could be completely overlooked when marketing in another country. The need for geographical and historical knowledge goes deeper than being able to locate continents and their countries. Geographic hurdles must be recognized as having a direct effect on marketing and the related activities of communications and distribution. For someone who has never been in a tropical rainforest with an annual rainfall of at least 60 inches (and sometimes more than 200 inches), anticipating the need for protection against high humidity is dif cult. Likewise, someone who has never encountered the dif cult problems caused by dehydration in constant 100-degrees-plus heat in the Sahara region will nd them hard to comprehend. Indirect effects from the geographical rami cations of a society and culture ultimately may be re ected in marketing activities. Many of the peculiarities of a country (i.e., peculiar to the foreigner) would be better understood and anticipated if its history and geography were studied more closely. Without a historical understanding of a culture, the attitudes within the marketplace may not be fully understood.

Aside from the simpler and more obvious rami cations of climate and topography, history and geography exert complex in uences on the development of the general economy and society of a country. In this case, the study of history and geography is needed to provide the marketer with an understanding of why a country has developed as it has rather than as a guide for adapting marketing plans. History and geography are two of the environments of foreign marketing that should be thoroughly understood and that must be included in foreign marketing plans to a degree commensurate with their in uence on marketing effort.

Key Terms

Opium wars Taiping rebellion Confucian philosophy Manifest destiny Monroe doctrine Roosevelt corollary

Expropriation Greenhouse-gas emissions Sustainable development

Questions

- 1. De ne the key terms listed above.
- 2. Why study geography in international marketing?
- 3. Why study a country's history?
- 4. How does an understanding of history help an international marketer?
- 5. Why is there a love—hate relationship between Mexico and the United States?
- 6. Some say the global environment is a global issue rather than a national one. What does this mean?
- Pick a country and show how employment and topography affect marketing within the country.
- 8. Pick a country, other than Mexico, and show how signi cant historical events have affected the country's culture.
- Discuss the bases of world trade. Give examples illustrating the different bases.

⁶⁸Ben Charny, "Steve Jobs Reveals New iPad Device," *The Wall Street Journal*, January 27, 2010, online.

- 10. The marketer "should also examine the more complex effect of geography on general market characteristics, distribution systems, and the state of the economy." Comment.
- 11. The world population pattern is shifting from rural to urban areas. Discuss the marketing ramic cations.
- 12. Select a country with a stable population and one with a rapidly growing population. Contrast the marketing implications of these two situations.
- 13. "World trade routes bind the world together." Discuss.
- Discuss how your interpretations of Manifest Destiny and the Monroe Doctrine might differ from those of a native of Latin America.
- 15. The telegraph, the telephone, television, satellites, the computer, mobile phones, and the Internet have all had an effect on how international business operates. Discuss how each of these communications innovations affects international business management.

world maps

- 1 The World
- 2 Global Climate
- 3 Oil and Gas Production and Consumption
- 4 Water
- 5 Global Communications
- 6 Global Terrorism
- 7 Religions
- 8 Global Economy and World Trade

