



4.3 Structure of manufacturing

| | Value added in manufacturing | | Food, beverages, and tobacco | | Textiles and clothing | | Machinery and transport equipment | | Chemicals | | Other manufacturing ^a | |
|--------------------------|------------------------------|---------|------------------------------|------|-----------------------|------|-----------------------------------|------|--------------------|------|----------------------------------|------|
| | \$ millions 1980 | 1997 | % of total 1980 | 1997 | % of total 1980 | 1997 | % of total 1980 | 1997 | % of total 1980 | 1997 | % of total 1980 | 1997 |
| Albania | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Algeria | 3,257 | 4,088 | 27 | 19 | 18 | 11 | 10 | 0 | 3 | 0 | 43 | 70 |
| Angola | .. | 330 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Argentina | 22,685 | 53,382 | 19 | .. | 13 | .. | 19 | .. | 9 | .. | 41 | .. |
| Armenia | .. | 368 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Australia | 30,722 | 56,576 | 17 | 16 | 7 | 10 | 21 | 19 | 7 | 7 | 46 | 49 |
| Austria | 19,263 | 45,387 | 16 | 19 | 10 | 15 | 25 | 16 | 7 | 8 | 42 | 42 |
| Azerbaijan | .. | 948 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Bangladesh | 3,101 | 7,106 | 24 | 29 | 43 | 47 | 4 | .. | 16 | 9 | 14 | 15 |
| Belarus | .. | 6,598 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Belgium | 25,773 | 44,567 | 17 | 18 | 8 | 15 | 24 | 24 | 11 | 7 | 40 | 37 |
| Benin | 112 | 180 | 59 | .. | 14 | .. | .. | .. | 6 | .. | 21 | .. |
| Bolivia | .. | 1,354 | 28 | 35 | 11 | 5 | 4 | 1 | 3 | 3 | 54 | 55 |
| Bosnia and Herzegovina | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Botswana | 60 | 242 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Brazil | 71,098 | 160,432 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Bulgaria | .. | 1,685 | .. | 20 | .. | 10 | .. | 5 | .. | .. | .. | 65 |
| Burkina Faso | 261 | 456 | 59 | 62 | 19 | 14 | 3 | .. | 1 | 2 | 17 | 22 |
| Burundi | 63 | 84 | 78 | .. | 11 | .. | 0 | .. | 3 | .. | 8 | .. |
| Cambodia | .. | 178 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Cameroon | 593 | 936 | 56 | 43 | 9 | 11 | 4 | 1 | 3 | 4 | 29 | 41 |
| Canada | 46,128 | .. | 14 | 14 | 7 | 5 | 23 | 30 | 8 | 10 | 48 | 42 |
| Central African Republic | 54 | 87 | 49 | .. | 22 | .. | 8 | .. | 11 | .. | 10 | .. |
| Chad | .. | 190 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Chile | 5,911 | 11,319 | 27 | 28 | 9 | 6 | 6 | 5 | 8 | 12 | 51 | 50 |
| China | 81,836 | 343,120 | 10 | 15 | 18 | 12 | 22 | 25 | 11 | 12 | 38 | 36 |
| Hong Kong, China | 6,392 | 10,612 | 5 | 10 | 42 | 27 | 18 | 27 | 2 | 2 | 34 | 33 |
| Colombia | 6,933 | 14,266 | 30 | 30 | 16 | 11 | 9 | 8 | 10 | 17 | 35 | 35 |
| Congo, Dem. Rep. | 2,144 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Congo, Rep. | 128 | 141 | 35 | .. | 16 | .. | 5 | .. | .. | .. | 44 | .. |
| Costa Rica | 899 | 1,832 | 46 | 53 | 10 | 13 | 8 | 3 | 7 | 7 | 28 | 24 |
| Côte d'Ivoire | 1,304 | 1,868 | 35 | 32 | 15 | 18 | 10 | 15 | .. | .. | 40 | 35 |
| Croatia | .. | 3,736 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Cuba | .. | 55 | .. | 7 | .. | 1 | .. | .. | .. | .. | 37 | .. |
| Czech Republic | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Denmark | 11,411 | 29,628 | 24 | 20 | 5 | 3 | 25 | 26 | 10 | 14 | 37 | 36 |
| Dominican Republic | 1,015 | 2,560 | 66 | .. | 6 | .. | 1 | .. | 6 | .. | 21 | .. |
| Ecuador | 2,072 | 4,221 | 34 | 26 | 13 | 6 | 7 | 4 | 9 | 7 | 38 | 56 |
| Egypt, Arab Rep. | 2,678 | 17,803 | 19 | 18 | 30 | 39 | 11 | 10 | 9 | 13 | 31 | 20 |
| El Salvador | 589 | 2,350 | 37 | 36 | 22 | 37 | 4 | 2 | 11 | 9 | 27 | 16 |
| Eritrea | .. | 91 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Estonia | .. | 695 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Ethiopia | 381 | .. | .. | 52 | .. | 18 | .. | 2 | .. | 4 | .. | 23 |
| Finland | 13,019 | 28,129 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| France | 160,811 | 268,930 | 13 | 13 | 8 | 12 | 30 | 23 | 8 | 7 | 41 | 45 |
| Gabon | 195 | 235 | 24 | 24 | 4 | 2 | 9 | 1 | 4 | 1 | 58 | 73 |
| Gambia, The | 12 | 22 | 35 | .. | 2 | .. | .. | .. | 3 | .. | 60 | .. |
| Georgia | .. | 801 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Germany | .. | 493,058 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Ghana | 347 | 185 | 37 | 36 | 11 | 5 | 2 | 2 | 5 | 10 | 46 | 48 |
| Greece | 6,968 | 10,719 | 18 | 26 | 23 | 13 | 14 | 13 | 8 | 12 | 37 | 36 |
| Guatemala | 1,312 | 2,445 | 39 | .. | 10 | .. | 5 | .. | 17 | .. | 28 | .. |
| Guinea | .. | 162 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Guinea-Bissau | .. | 30 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Haiti | .. | .. | .. | 46 | .. | 19 | .. | .. | .. | .. | .. | 34 |
| Honduras | 344 | 733 | 51 | 60 | 9 | 8 | 2 | 0 | 5 | 7 | 34 | 26 |



Structure of manufacturing 4.3

| | Value added in manufacturing | | Food, beverages, and tobacco | | Textiles and clothing | | Machinery and transport equipment | | Chemicals | | Other manufacturing ^a | |
|--------------------|------------------------------|-----------|------------------------------|------|-----------------------|------|-----------------------------------|------|--------------------|------|----------------------------------|------|
| | 1980 \$ millions | 1997 | 1980 % of total | 1997 | 1980 % of total | 1997 | 1980 % of total | 1997 | 1980 % of total | 1997 | 1980 % of total | 1997 |
| Hungary | .. | 9,698 | 11 | 20 | 11 | 7 | 28 | 24 | 11 | 9 | 38 | 40 |
| India | 27,061 | 64,552 | 9 | 12 | 21 | 14 | 25 | 25 | 14 | 17 | 30 | 32 |
| Indonesia | 10,133 | 57,805 | 32 | 19 | 14 | 19 | 13 | 18 | 11 | 9 | 30 | 35 |
| Iran, Islamic Rep. | 8,567 | 13,022 | 15 | 33 | 19 | 24 | 12 | 14 | 5 | 4 | 49 | 25 |
| Iraq | .. | .. | .. | 29 | .. | 16 | .. | 6 | .. | 2 | .. | 48 |
| Ireland | .. | .. | 29 | 23 | 8 | 2 | 17 | 34 | 14 | 22 | 32 | 18 |
| Israel | .. | .. | 12 | 17 | 12 | 15 | 26 | 18 | 8 | 7 | 42 | 42 |
| Italy | 126,012 | 229,610 | 9 | .. | 12 | .. | 29 | .. | 11 | .. | 39 | .. |
| Jamaica | 441 | 673 | 47 | 48 | 6 | 7 | .. | .. | .. | .. | 47 | 46 |
| Japan | 309,747 | 1,020,540 | 9 | 10 | 7 | 4 | 33 | 40 | 9 | 10 | 43 | 37 |
| Jordan | 447 | 835 | 23 | 32 | 7 | 6 | 1 | 4 | 7 | 16 | 62 | 42 |
| Kazakhstan | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Kenya | 796 | 883 | 34 | 48 | 12 | 7 | 15 | 10 | 9 | 8 | 30 | 27 |
| Korea, Dem. Rep. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Korea, Rep. | 17,416 | 137,674 | 17 | 26 | 19 | 20 | 17 | 9 | 10 | 10 | 36 | 35 |
| Kuwait | 1,581 | 2,913 | 7 | 6 | 5 | 4 | 4 | 3 | 7 | 5 | 76 | 81 |
| Kyrgyz Republic | .. | 292 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Lao PDR | .. | 271 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Latvia | .. | 1,093 | .. | 39 | .. | 12 | .. | 15 | .. | 6 | .. | 29 |
| Lebanon | .. | 2,319 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Lesotho | 21 | 141 | 73 | .. | 7 | .. | .. | .. | 4 | .. | 16 | .. |
| Libya | 682 | .. | 31 | 43 | 10 | 12 | .. | 2 | 16 | 7 | 43 | 36 |
| Lithuania | .. | 1,760 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Macedonia, FYR | .. | .. | .. | 32 | .. | 18 | .. | 15 | .. | 11 | .. | 24 |
| Madagascar | .. | 365 | 34 | .. | 45 | .. | 3 | .. | 6 | .. | 13 | .. |
| Malawi | 152 | 311 | 58 | .. | 12 | .. | 4 | .. | 5 | .. | 20 | .. |
| Malaysia | 5,054 | 28,489 | 24 | 10 | 7 | 5 | 20 | 39 | 5 | 9 | 43 | 38 |
| Mali | 105 | 92 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Mauritania | .. | 97 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Mauritius | 147 | 888 | 36 | 31 | 30 | 46 | 6 | 2 | 6 | 4 | 23 | 17 |
| Mexico | 45,939 | 69,728 | .. | 25 | .. | 3 | .. | 22 | .. | 20 | .. | 30 |
| Moldova | .. | 353 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Mongolia | .. | .. | .. | 23 | .. | 63 | .. | 0 | .. | 1 | .. | 12 |
| Morocco | 3,167 | 5,900 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Mozambique | .. | 357 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Myanmar | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Namibia | 187 | 402 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Nepal | 78 | 435 | .. | 35 | .. | 34 | .. | 3 | .. | 6 | .. | 23 |
| Netherlands | 30,866 | 70,407 | 19 | 24 | 4 | 2 | 27 | 25 | 11 | 14 | 38 | 34 |
| New Zealand | 4,950 | .. | 26 | 26 | 11 | 12 | 17 | 15 | 6 | 5 | 40 | 42 |
| Nicaragua | 550 | 298 | 53 | 52 | 8 | 18 | 1 | 0 | 10 | 25 | 28 | 4 |
| Niger | 94 | 122 | 30 | 23 | 25 | 1 | 2 | .. | 16 | .. | 28 | 76 |
| Nigeria | 5,195 | 1,839 | 21 | .. | 13 | .. | 13 | .. | 13 | .. | 39 | .. |
| Norway | 9,196 | 17,055 | 15 | 16 | 4 | 9 | 27 | 22 | 7 | 8 | 48 | 45 |
| Oman | 39 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Pakistan | 3,389 | 9,813 | 32 | 29 | 22 | 43 | 9 | 6 | 12 | 12 | 25 | 10 |
| Panama | 408 | 756 | 49 | 48 | 10 | 7 | 2 | 2 | 6 | 3 | 34 | 39 |
| Papua New Guinea | 242 | 452 | 40 | .. | 1 | .. | 16 | .. | 3 | .. | 41 | .. |
| Paraguay | 733 | 1,408 | 38 | 56 | 12 | 16 | 1 | 1 | 3 | 5 | 46 | 21 |
| Peru | 4,176 | 14,613 | 25 | .. | 13 | .. | 13 | .. | 10 | .. | 40 | .. |
| Philippines | 8,354 | 18,333 | 30 | 33 | 13 | 9 | 12 | 15 | 14 | 13 | 31 | 29 |
| Poland | .. | 28,153 | 12 | 28 | 17 | 7 | 32 | 22 | 8 | 7 | 31 | 35 |
| Portugal | .. | 26,510 | 13 | 14 | 22 | 17 | 16 | 15 | 7 | 5 | 42 | 49 |
| Puerto Rico | 5,306 | .. | 15 | .. | 5 | .. | 12 | .. | 50 | .. | 18 | .. |
| Romania | .. | 9,791 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Russian Federation | .. | .. | .. | 17 | .. | 4 | .. | 20 | .. | 9 | .. | 51 |



4.3 | Structure of manufacturing

| | Value added in manufacturing | | Food, beverages, and tobacco | | Textiles and clothing | | Machinery and transport equipment | | Chemicals | | Other manufacturing ^a | |
|--------------------------------|------------------------------|--------------------|------------------------------|------|-----------------------|------|-----------------------------------|------|--------------------|------|----------------------------------|------|
| | \$ millions 1980 | 1997 | % of total 1980 | 1997 | % of total 1980 | 1997 | % of total 1980 | 1997 | % of total 1980 | 1997 | % of total 1980 | 1997 |
| Rwanda | 178 | 230 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Saudi Arabia | 7,740 | 13,511 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Senegal | 316 | 671 | 50 | 44 | 19 | 3 | 4 | 2 | 8 | 30 | 20 | 20 |
| Sierra Leone | 54 | 54 | 51 | .. | 5 | .. | .. | .. | .. | .. | 44 | .. |
| Singapore | 3,415 | 21,995 | 5 | 3 | 5 | 1 | 44 | 60 | 5 | 9 | 41 | 26 |
| Slovak Republic | .. | 4,597 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Slovenia | .. | 4,423 | .. | 13 | .. | 12 | .. | 15 | .. | 11 | .. | 50 |
| South Africa | 16,381 | 26,880 | 12 | 16 | 9 | 7 | 21 | 19 | 9 | 10 | 48 | 48 |
| Spain | .. | 103,623 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Sri Lanka | 668 | 2,235 | 32 | 27 | 14 | 23 | 6 | 18 | 6 | 19 | 42 | 13 |
| Sudan | 517 | 891 | .. | 37 | .. | 36 | .. | .. | .. | 3 | .. | 24 |
| Sweden | 26,293 | .. | 10 | 8 | 3 | 1 | 33 | 37 | 7 | 11 | 47 | 43 |
| Switzerland | .. | .. | .. | 10 | .. | 3 | .. | 30 | .. | .. | .. | 57 |
| Syrian Arab Republic | .. | .. | 29 | 35 | 26 | 43 | .. | 2 | .. | 1 | 45 | 19 |
| Tajikistan | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Tanzania ^b | .. | 458 | 23 | 42 | 33 | 29 | 8 | 9 | 6 | 7 | 30 | 12 |
| Thailand | 6,960 | 46,502 | 55 | 55 | 8 | 5 | 9 | 8 | 7 | 8 | 21 | 24 |
| Togo | 89 | 126 | 47 | 34 | 13 | 28 | .. | .. | 8 | 6 | 32 | 31 |
| Trinidad and Tobago | 557 | 440 | 22 | 19 | 4 | 3 | 9 | 4 | 4 | 1 | 61 | 73 |
| Tunisia | 1,030 | 3,479 | 18 | 29 | 19 | 15 | 7 | 4 | 15 | 20 | 42 | 32 |
| Turkey | 9,333 | 30,971 | 18 | 13 | 15 | 16 | 14 | 21 | 10 | 12 | 42 | 38 |
| Turkmenistan | .. | 825 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Uganda | 53 | 488 | .. | 31 | .. | 23 | .. | .. | .. | 4 | .. | 42 |
| Ukraine | .. | 13,167 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| United Arab Emirates | 1,130 | .. | 12 | .. | 2 | .. | 2 | .. | 7 | .. | 77 | .. |
| United Kingdom | 125,830 | 213,752 | 13 | 14 | 6 | 5 | 33 | 30 | 10 | 12 | 38 | 39 |
| United States | 589,100 | 1,392,500 | 11 | 11 | 6 | 4 | 34 | 37 | 10 | 11 | 40 | 37 |
| Uruguay | 2,627 | 3,613 | 28 | 44 | 17 | 14 | 10 | 5 | 7 | 11 | 38 | 26 |
| Uzbekistan | .. | 2,613 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Venezuela, RB | 11,112 | 14,252 | 19 | 28 | 7 | 5 | 9 | 10 | 8 | 12 | 57 | 45 |
| Vietnam | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| West Bank and Gaza | .. | 518 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Yemen, Rep. | .. | 592 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Yugoslavia, FR (Serb./Mont.) | .. | .. | .. | 29 | .. | 9 | .. | 16 | .. | 11 | .. | 34 |
| Zambia | 718 | 466 | 44 | 36 | 13 | 13 | 9 | 10 | 9 | 4 | 25 | 37 |
| Zimbabwe | 1,384 | 1,293 | 23 | 31 | 17 | 15 | 8 | 8 | 9 | 9 | 42 | 36 |
| World | 2,421,714 t | 5,877,746 t | | | | | | | | | | |
| Low income | 154,170 | 516,601 | | | | | | | | | | |
| Excl. China & India | 46,667 | 103,992 | | | | | | | | | | |
| Middle income | .. | 974,235 | | | | | | | | | | |
| Lower middle income | .. | .. | | | | | | | | | | |
| Upper middle income | .. | 607,753 | | | | | | | | | | |
| Low & middle income | 509,900 | 1,498,231 | | | | | | | | | | |
| East Asia & Pacific | 137,607 | 644,796 | | | | | | | | | | |
| Europe & Central Asia | .. | .. | | | | | | | | | | |
| Latin America & Carib. | .. | 383,146 | | | | | | | | | | |
| Middle East & N. Africa | 29,396 | 73,382 | | | | | | | | | | |
| South Asia | 34,841 | 85,513 | | | | | | | | | | |
| Sub-Saharan Africa | 33,005 | 43,553 | | | | | | | | | | |
| High income | 1,901,096 | 4,382,970 | | | | | | | | | | |
| Europe EMU | .. | 1,289,559 | | | | | | | | | | |

a. Includes unallocated data. b. Data cover mainland Tanzania only.



Structure of manufacturing 4.3

About the data

The data on the distribution of manufacturing value added by industry are provided by the United Nations Industrial Development Organization (UNIDO). UNIDO obtains data on manufacturing value added from a variety of national and international sources, including the United Nations Statistics Division, the World Bank, the Organisation for Economic Co-operation and Development, and the International Monetary Fund. To improve comparability over time and across countries, UNIDO supplements these data with information from industrial censuses, statistics supplied by national and international organizations, unpublished data that it collects in the field, and estimates by the UNIDO Secretariat. Nevertheless, coverage may be less than complete, particularly for the informal sector. To the extent that direct information on inputs and outputs is not available, estimates may be used that may result in errors in industry totals. Moreover, countries use different reference periods (calendar or fiscal year) and valuation methods (basic, producer, or purchaser prices) to estimate value added. (See also *About the data* for table 4.2.)

The data on manufacturing value added in U.S. dollars are from the World Bank's national accounts files. These figures may differ from those used by UNIDO to calculate the shares of value added by industry. Thus estimates of value added in a particular industry group calculated by applying the shares to total value added will not match those from UNIDO sources.

The classification of manufacturing industries in the table accords with the United Nations International Standard Industrial Classification (ISIC) revision 2. First published in 1948, the ISIC has its roots in the work of the League of Nations Committee of Statistical Experts. The committee's efforts, interrupted by the second world war, were taken up by the United Nations Statistical Commission, which at its first session appointed a committee on industrial classification. The ISIC has been revised at approximately 20-year intervals. The last revision, ISIC revision 3, was completed in 1989. Revision 2 is still widely used for compiling cross-country data, however, and concordances matching ISIC categories to national systems of classification and to related systems such as the Standard International Trade Classification (SITC) are readily available.

In establishing a classification system, compilers must define both the types of activities to be described and the organizational units whose activities are to be reported. There are many possibilities, and the choices made affect how the resulting statistics can be interpreted and how useful they are in analyzing economic behavior. The ISIC emphasizes commonalities in the

production process and is explicitly not intended to measure outputs (for which there is a newly developed Central Product Classification); nevertheless, the ISIC views an activity as defined by " . . . a process resulting in a homogeneous set of products" (United Nations 1990b [ISIC, series M, no. 4, rev. 3], p. 9). Typically, firms use a multitude of processes to produce a final product. For example, an automobile manufacturer engages in forging, welding, and painting as well as advertising, accounting, and many other service activities. In some cases the processes may be carried out by different technical units within the larger enterprise, but collecting data at such a detailed level is not practical. Nor would it be useful to record production data at the very highest level of a large, multipiant, multiproduct firm. The ISIC has therefore adopted as the definition of an establishment "an enterprise or part of an enterprise which independently engages in one, or predominantly one, kind of economic activity at or from one location . . . for which data are available . . ." (United Nations 1990b, p. 25). By design, this definition matches the reporting unit required for the production accounts of the United Nations System of National Accounts.

Definitions

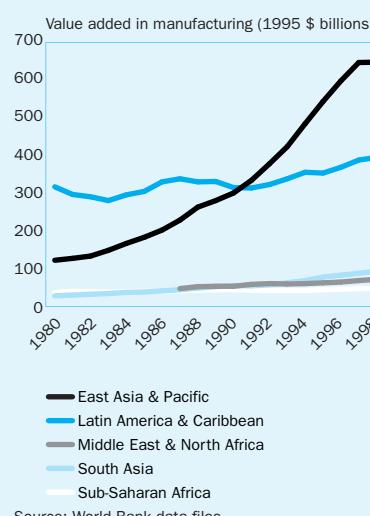
- **Value added in manufacturing** is the sum of gross output less the value of intermediate inputs used in production for industries classified in ISIC major division 3.
- **Food, beverages, and tobacco** comprise ISIC division 31.
- **Textiles and clothing** comprise ISIC division 32.
- **Machinery and transport equipment** comprise ISIC groups 382–84.
- **Chemicals** comprise ISIC groups 351 and 352.
- **Other manufacturing** includes wood and related products (ISIC division 33), paper and related products (ISIC division 34), petroleum and related products (ISIC groups 353–56), basic metals and mineral products (ISIC divisions 36 and 37), fabricated metal products and professional goods (ISIC groups 381 and 385), and other industries (ISIC group 390). When data for textiles and clothing, machinery and transport equipment, or chemicals are shown as not available, they are included in other manufacturing.

Data sources

The data on value added in manufacturing in U.S. dollars are from the World Bank's national accounts files. The data used to calculate shares of value added by industry are provided to the World Bank in electronic files by UNIDO. The most recent published source is UNIDO's *International Yearbook of Industrial Statistics* 1999. The ISIC system is described in the United Nations' *International Standard Industrial Classification of all Economic Activities, Third Revision* (1990b). The discussion of the ISIC draws on Jacob Ryten's paper "Fifty Years of ISIC: Historical Origins and Future Perspectives" (1998).

Figure 4.3

Manufacturing growth slowed in East Asia



As a financial crisis swept through East Asia, growth in manufacturing almost came to a halt in the region—for the first time in two decades.