A New Database on Financial Development and Structure

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Abstract: This paper introduces a new database of indicators of financial development and structure across countries and over time. This database is unique in that it unites a wide variety of indicators that measure the size, activity and efficiency of financial intermediaries and markets. It improves on previous efforts by presenting data on the public share of commercial banks, by introducing indicators of the size and activity of nonbank financial institutions and by presenting measures of the size of bond and primary equity markets. This paper describes the sources, the construction and the intuition for the different indicators and presents descriptive statistics.

Beck: The World Bank; Demirgüç-Kunt: The World Bank; Levine: Carlson School of Management, University of Minnesota. We are grateful to Joe Attia and Ian Webb for technical assistance and to Gerard Caprio for comments. This paper’s findings, interpretations, and conclusions are entirely those of the authors and do not necessarily represent the views of the World Bank, its Executive Directors, or the countries they represent.
I. Introduction

A recent and expanding literature establishes the importance of financial development for economic growth.\(^1\) Measures of the size of the banking sector and the size and liquidity of the stock market are highly correlated with subsequent GDP per capita growth. Moreover, emerging evidence suggests that both the level of banking sector development and stock market development exert a causal impact on economic growth.\(^2\) Recent financial crises in South East Asia and Latin America further underline the importance of a well-functioning financial sector for the whole economy.

This paper introduces a new database that for the first time allows financial analysts and researchers a comprehensive assessment of the development, structure and performance of the financial sector. This database provides statistics on the size, activity and efficiency of various financial intermediaries and markets across a broad spectrum of countries and through time. The database will thus enable financial analysts and researchers to compare the level of financial development and the structure of the financial sector of a specific country with that of other countries in the region or countries with a similar GDP per capita level. It allows comparisons of financial systems for a given year and over time.

Previously, financial analysts and researchers have relied on a few indicators of the banking sector and the stock market, using data from the IMF’s International Financial Statistics and the IFC’s Emerging Market Database. This new database draws on a wider array of sources.

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\(^1\) For an overview over this literature see Levine (1997).

\(^2\) See King and Levine (1993a,b) and Levine and Zervos (1998) for correlation and Levine, Loayza and Beck (1999), Beck, Levine and Loayza (1999), Neusser and Kugler (1998) and Rousseau and Wachtel (1998) for evidence on causality. Also, Demirgüç-Kunt and Maksimovic (1998) show that firms in countries with an active stock market and large banking sector grow faster than predicted by individual firm characteristics. Rajan and Zingales (1998) show that industries that rely more heavily on external finance grow faster in countries with better-developed financial systems.
and constructs indicators of the size, activity and efficiency of a much broader set of financial institutions and markets. Specifically, this database uses bank-specific data to construct indicators of the market structure and efficiency of commercial banks. Furthermore, this is the first systematic compilation of data on the split of public vs. private ownership in the banking sector. This database is the first attempt to define and construct indicators of the size and activity of nonbank financial intermediaries, such as insurance companies, pension funds, and non-deposit money banks. Finally, this database is the first to include indicators of the size of primary equity markets and primary and secondary bond markets. This results in a unique set of indicators that capture the development and structure of the financial sector across countries and over time along many different dimensions.

The remainder of the paper is organized as follows. Section II presents and discusses indicators of the size and activity of financial intermediaries. Section III introduces indicators of the efficiency and market structure of commercial banks. In section IV we define indicators of the size and activity of other financial institutions. Stock and bond market indicators are introduced in section V. Each section presents the indicators, the sources and the sample, and the variance of the indicators across income groups of countries. Section VI offers concluding remarks. Table 1 provides an overview of all indicators with cross-country and time-series coverage. The appendix presents the sources and construction of the measures.

II. The Size and Activity of Financial Intermediaries

A first set of measures compares the size and activity of central banks, deposit money banks and other financial institutions relative to each other and relative to GDP. We use data
from the IMF’s International Financial Statistics (IFS) to construct these indicators. The data cover the period from 1960 to 1997 and 175 countries. This section (1) describes the three different groups of financial intermediaries, (2) presents the different measures, (3) defines the deflating procedure, and (4) presents some regularities of financial development over time and across countries.

**A. Groups of Financial Institutions**

The indicators in this section distinguish between three groups of financial institutions: central banks, deposit money banks and other financial institutions. The three groups are defined as in the International Financial Statistics (IFS). The first group comprises the central bank and other institutions that perform functions of the monetary authorities. The second group, deposit money banks, comprises all financial institutions that have “liabilities in the form of deposits transferable by check or otherwise usable in making payments” [IMF 1984, 29]. The third group – other financial institutions - comprises other banklike institutions and nonbank financial institutions. These are institutions that serve as financial intermediaries, while not incurring liabilities usable as means of payment. Other banklike institutions comprise (i) institutions that accept deposits, but do not provide transferable deposit facilities, (ii) intermediaries that finance themselves mainly through issuance of negotiable bonds, (iii) development banks, and (iv) offshore units. Nonbank financial institutions include insurance companies, provident and pension funds, trust and custody accounts, real investment schemes,

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3 For a detailed description of the three financial sectors see IMF (1984). The three groups correspond to lines 12, 22, and 42 of the IFS.
other pooled investment schemes, and compulsory savings schemes. Whereas data on other banklike institutions are usually current and complete, only fragmentary data are available for nonbank financial institutions.

We distinguish between two different balance sheet items: total claims on domestic nonfinancial sectors (lines a through d) and claims on the private sector (line d).\(^5\) In the following we will denote the first with “assets” and the second with “private credit”. Whereas “assets” refers to total domestic financial intermediation that the respective intermediary performs, “private credit” captures the financial intermediation with the private nonfinancial sector. For both measures, we exclude claims on central banks, deposit money banks and other financial institutions (lines e through g) and therefore any cross-claims of one financial sector on another.

\*B. Measures of Size of Financial Intermediaries\*

We present two groups of size indicators. The relative size indicators measure the importance of the three financial sectors relative to each other, the absolute size indicators measure their size relative to GDP.

1. Relative size measures

The first three indicators are only presented if there are data available on all three financial sectors. These indicators are:

- **Central Bank Assets to Total Financial Assets**

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\(^4\) Exchange stabilization funds are the most typical case of monetary authority functions that are performed separately from the central banks’ balance sheets. Furthermore, the central bank might perform commercial banking tasks. Where possible, these are excluded from the central bank balance sheets when reported in the IFS.
- **Deposit Money Banks Assets to Total Financial Assets**

- **Other Financial Institutions Assets to Total Financial Assets**

where Total Financial Assets are the sum of central bank, deposit money banks and other financial institutions assets.

Since these measures are calculated only if there are data available for all three categories, we construct an alternative indicator that measures the relative importance of deposit money banks relative to central banks, **Deposit Money vs. Central Bank Assets**. This measure has been used as a measure of financial development by, among others, King and Levine (1993a,b) and Levine, Loayza, and Beck (1998) and equals the ratio of deposit money banks assets and the sum of deposit money and central bank assets.

### 2. Absolute Size Measures

The following three indicators measure the size of the three financial sectors relative to GDP:

- **Central Bank Assets to GDP**

- **Deposit Money Banks Assets to GDP**

- **Other Financial Institutions Assets to GDP**

These measures give evidence of the importance of the financial services performed by the three financial sectors relative to the size of the economy. The assets include claims on the whole nonfinancial real sector, including government, public enterprises and the private sector.

Since many researchers have focused on the liability side of the balance sheet, we include a measure of absolute size based on liabilities. **Liquid Liabilities to GDP** equals currency plus

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5 In the case of other financial institutions we also include line 42h, claims on real estate in total claims on domestic nonfinancial sectors and in private credit.
demand and interest-bearing liabilities of banks and other financial intermediaries divided by GDP. This is the broadest available indicator of financial intermediation, since it includes all three financial sectors. For the numerator we use either line 55l or, where not available, line 35l. Whereas line 35l includes monetary authorities and deposit money banks, line 55l also includes other banking institutions, as defined by the IMF. Line 35l is often also referred to as M2. Liquid Liabilities is a typical measure of financial “depth” and thus of the overall size of the financial sector, without distinguishing between the financial sectors or between the use of liabilities.

C. Measures of Activity of Financial Intermediaries

While the size measures do not distinguish whether the claims of financial intermediaries are on the public or the private sector, the following two indicators concentrate on claims on the private sector.

- Private Credit by Deposit Money Banks to GDP

- Private Credit by Deposit Money Banks and Other Financial Institutions to GDP

Whereas the first equals claims on the private sector by deposit money banks divided by GDP, the second includes claims by both deposit money banks and other financial institutions. Both measures isolate credit issued to the private sector as opposed to credit issued to governments and public enterprises. Furthermore, they concentrate on credit issued by intermediaries other than the central bank. They are the measures of the activity of financial intermediaries in one of its main function: channeling savings to investors. Both indicators have been used by researchers, the first by Levine and Zervos (1998), and the second by Levine, Loayza and Beck (1999) and Beck, Levine, and Loayza (1999).
D. A Note on Deflating

We can distinguish between two groups of measures depending on the denominator. The first group consists of ratios of two stock variables, whereas the measures in the second group are ratios of a stock variable and a flow variable, specifically GDP. Whereas stock variables are measured at the end of a period, flow variables are defined relative to a period. This presents problems in the second group of indicators, both in terms of correct timing and in terms of deflating correctly. To address these problems, we deflate the end-of-year financial balance sheet items $FD$ by end-of-year consumer price indices (CPI) and deflate the GDP series by the annual CPI.\(^6\) Then, we compute the average of the real financial balance sheet item in year $t$ and $t-1$ and divide this average by real GDP measured in year $t$. The end-of year CPI is either the value for December or, where not available, the value for the last quarter. The formula is the following.

\[
0.5 \times \left( \frac{FD_{e,t}}{CPI_{e,t}} + \frac{FD_{e,t-1}}{CPI_{e,t-1}} \right) \frac{GDP_{a,t}}{CPI_{a,t}}
\]

where $e$ indicates end-of-period and $a$ average for the period.

E. Financial Intermediary Development across Income Groups and Time

\(^6\) For the CPI numbers we use line 64 and for GDP line 99b from the IFS.
As exhibited by graphs 1–3, our indicators of financial intermediary development show considerable variation across countries and time. Graph 1 shows that central banks loose relative importance as we move from low- to high-income countries, whereas other financial institutions gain relative importance. Deposit money banks gain importance versus Central Banks with a higher income level. As can be seen in graph 2, financial depth, as measured by Liquid Liabilities to GDP, increases with the income level. Deposit money banks and other financial institutions are bigger and more active in richer countries, whereas central banks are smaller. Graph 3 shows that Liquid Liabilities to GDP and Private Credit by Deposit Money Banks to GDP have increased constantly since the 60s. Central Bank Assets to GDP first increased from the 60s to the 80s and then decreased again in the 90s. Deposit Money Banks vs. Central Bank Assets first increased and then decreased over time, a result mainly driven by low-income countries.

III. Efficiency and Market Structure of Commercial Banks

This section provides indicators of the efficiency and market structure of commercial banks. The data were collected from individual banks’ balance sheets provided by IBCA’s Bankscope database and from individual country sources such as central bank and supervisory

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7 To assess the size and activity of financial intermediaries across countries, we use the World Bank classification of countries according to their income levels (World Development Indicators 1998). We can distinguish between four country groups; high income countries with a GNP per capita in 1997 higher than $9,656, upper middle income countries with a GNP per capita between $3,126 and $9,655, lower middle income countries with a GNP per capita between $786 and $3,125 and low income countries with a GNP per capita of less than $786.
8 We use medians for the four income groups to avoid the impact of outliers.
9 The classifications “commercial” and “deposit money banks” are close, but not exactly the same. Whereas IFS defines deposit money banks consistently across countries, Bankscope uses country-specific definitions of commercial banks.
body publications.\textsuperscript{10} We first present two efficiency measures of commercial banks. Then we define several indicators of market structure, in terms of concentration, foreign bank penetration and public vs. private ownership. Finally, sources and coverage are presented and some evidence on the efficiency and market structure across countries.

\textbf{A. Measures of Efficiency}

One of the main functions of financial intermediaries is to channel funds from savers to investors. We construct two potential measures of the efficiency with which commercial banks perform this function. The \textit{net interest margin} equals the accounting value of a bank’s net interest revenue as a share of its total assets.\textsuperscript{11} \textit{Overhead cost} equals the accounting value of a bank’s overhead costs as share of its total assets.

Unlike in the previous section, we do not deflate numerator and denominator of these two measures, although they are ratios of a flow and a stock variable and therefore measured at different points of time, for several reasons. First, unlike for macroeconomic variables, there is no obvious deflator for individual banks’ assets and income flows. Second, unlike macroeconomic variables and financial sector assets, bank-individual flows and stocks are directly related. Third, financial assets and flows are not the product of quantity times price, as is the GDP. Finally, we would lose around 25\% of the observations.\textsuperscript{12}

\textsuperscript{10} Unfortunately the coverage of Bankscope is less than 100\% of most countries’ banking sector. This poses relatively few problems in the case of the efficiency measures, but more so in the case of the measures of market structure, as discussed below.

\textsuperscript{11} Ex-post spreads are preferable to ex-ante spreads, since the latter reflect the perceived loan risk, so that different levels of risk faced by bankers distort these spread. Ex-post spreads also pose some problems though. So might interest income and loan loss reserving associated with a particular loan incur in different periods. See Demirgüç-Kunt and Huizinga (1998).

\textsuperscript{12} We also calculated numbers deflated by the CPI. The correlation between the deflated numbers and the nominal numbers is 91\% in the panel and 96\% in the cross-section.
B. Measures of Market Structure

Here we collect and present data on the concentration of commercial banks, foreign bank penetration and public vs. private ownership of commercial banks.

We use a concentration measure that is defined as the ratio of the three largest banks’ assets to total banking sector assets. A highly concentrated commercial banking sector might result in lack of competitive pressure to attract savings and channel them efficiently to investors. A highly fragmented market might be evidence for undercapitalized banks.

We present two measures of foreign bank penetration: the foreign bank share (number), which equals the number of foreign banks in total banks, and the foreign bank share (assets), which equals the share of foreign bank assets in total banking sector assets.\(^\text{13}\)

Clasenssens, Demirgüç-Kunt and Huizinga (1997) show that an increase in foreign bank penetration leads to lower profitability and overhead expenses for banks. Demirgüç-Kunt, Levine, and Min (1998) show that higher foreign-bank penetration enhances economic growth by boosting domestic banking efficiency. A bank is defined as foreign if at least 50% of the equity is owned by foreigners.

Public vs. private ownership has become an increasingly important issue for both researchers and policy makers, not only in the banking sector, but also for the whole economy.\(^\text{14}\)

This database includes the first compilation of panel data on the public ownership of commercial banks. Public Share equals the share of publicly owned commercial bank assets in total

\(^{13}\) Both foreign bank indicator and the concentration measure might be biased upwards for developing countries, if foreign and large banks are more likely to report than domestic and smaller banks. There is an additional caveat concerning the two foreign penetration measures: since a bank is defined as foreign if it was foreign in 1998, take-overs of domestic banks by foreign banks are not taken into account.

\(^{14}\) See Demirgüç-Kunt and Levine (1996).
commercial bank assets. A bank is defined as public if at least 50% of the equity is held by the government or a public institution.

C. Sources and Coverage

Data on the net interest margin, overhead costs, concentration and foreign bank penetration use income statements and balance sheet data of commercial banks from the Bank Scope Database provided by IBCA. Data are available for 137 countries and for the years since 1990. To ensure a reasonable coverage, only countries with at least three banks in a given year are included. Although on average around 90% of the banking sector assets in a given country and year are covered in IBCA, the possibility of sampling error and bias should not be underestimated. Net interest margin and overhead costs are calculated as averages for a country in a given year. Whereas for the two efficiency measures we use only unconsolidated balance sheets, we use both unconsolidated and consolidated balance sheets for the concentration index and the foreign bank penetration measures.\(^{15}\)

Data on public vs. private ownership are from Bankscope, Gardener and Molyneux (1990) and individual country sources, such as central bank or supervisory body publications.\(^{16}\) Data are available for 41 developed and developing countries and for selected years in the 80s and 90s. Numbers from Bankscope were double-checked with estimates from other sources.

D. The Efficiency and Market Structure of Commercial Banks across Income Groups

\(^{15}\) We use unconsolidated balance sheets for the efficiency measures to insure consistency. In the case of the concentration index and the measures of foreign bank penetration we want to maximize the number of banks.\(^ {16}\) See the appendix for the listing of sources.
As can be seen in graph 4, commercial banks are more efficient in high and upper-middle income countries. There is also a negative correlation between the income level and the concentration of the commercial banking sector. There is a higher degree of foreign bank penetration in low and lower-middle income countries both in terms of number and assets of foreign banks. The most striking variance can be observed for public vs. private ownership of commercial banks. Whereas public bank assets constitute over 70% of commercial bank assets in low-income countries, their share is around 40% in middle income and 0% in high-income countries.17

IV. Other Financial Institutions

This section of the database presents the first systematic effort to collect data on financial intermediaries other than central and deposit money banks. We first define five different groups of other financial institutions before presenting indicators of their size and activity. Finally, sources and coverage are presented and some evidence on the size and activity of other financial institutions across countries.

A. Categories of other financial institutions

In section II we included all financial intermediaries other than central and deposit money banks in one group, called “other financial institutions”. In this section we try to get a better picture by breaking this sector up into five subgroups.

17 Note that these numbers, like in all graphs are medians. The means for the income groups are 64% for low-income groups, 38 and 39% for lower and upper middle income groups and 23% for high-income countries.
1. **Banklike Institutions**: This category comprises two groups of institutions; (i) intermediaries that accept deposits without providing transferable deposit facilities, and (ii) intermediaries that raise funds on the financial market mainly in form of negotiable bonds. Examples of the first group are savings banks, cooperative banks, mortgage banks and building societies. Examples of the second group include finance companies. These institutions often have specialized in very specific activities, for historic, legal or tax reasons.\(^\text{18}\)

2. **Insurance Companies**: Within the category of insurance companies we can distinguish between life insurance companies and other insurance companies. We do not include insurance funds that are part of a government social security system.

3. **Private Pension and Provident Funds**: Like life insurance companies, pension and provident funds serve for risk pooling and wealth accumulation. We do not include pension funds that are part of a government social security system.

4. **Pooled Investment Schemes**: Financial institutions that invest on behalf of their shareholders in a certain type of asset, as real estate investment schemes or mutual funds.

5. **Development Banks** are financial institutions that derive their funds mainly from the government, other financial institutions and supranational organizations. On the asset side they are often concentrated on specific groups of borrowers. Most of these institutions were set up after World War II or after independence in an effort to foster economic development.

\(^\text{18}\) Note that this definition is more restricted than the IFS’ definition of other banklike institutions.
B. Measures of the Size and Activity of Other Financial Institutions

In this subsection we present size and activity indicators similar to the ones in section 2, plus some additional measures of insurance development.

For all five other financial institution groups we construct measures of their size relative to GDP by calculating the ratio of total assets to GDP. Unlike in section II, total assets refer to balance sheet’s total assets.\textsuperscript{19} We also construct activity indicators by measuring the claims on the private sector relative to GDP.

For the insurance sector we include an additional size and two additional activity measures: We present assets and private credit of the life insurance sector where disaggregated data are available. We also present life insurance penetration, measured by premiums/GDP and life insurance density, measured by premiums/population. The first indicator provides evidence on the importance of the life insurance sector relative to the total economy, the second evidence on the expenditure per capita on life insurance provision.\textsuperscript{20}

C. Sources

Data on the size and activity of other financial institutions were collected mostly from the IFS and individual country sources, such as central banks, bank and insurance supervisory bodies and statistical yearbooks.\textsuperscript{21} These data are available for 65 countries and for the years since 1980.

\textsuperscript{19} Using balance sheet’s total assets is problematic since they might include cross-claims within a category of other financial institutions and claims on other groups of financial intermediaries. A size measure like in section II that includes only claims on the nonfinancial sector is therefore preferable, but not available for most countries.

\textsuperscript{20} Life insurance density is constructed as premiums in local currency divided by the purchasing power parity conversion factor, obtained from the World Development Indicators, and the population. To obtain the real density, we adjust these numbers by the annual CPI of the U.S.

\textsuperscript{21} A complete list of sources is available in the appendix.
Data on life insurance penetration and life insurance density come from SIGMA, a monthly publication by Swiss-Re. Their data are “based on direct premium volume of commercially active insurers, regardless of whether they are in state or private ownership.” [SIGMA 4/1998, 4] Only domestic insurance business, regardless whether conducted by domestic or foreign insurers, is included. Data are available for 88 developing and developed countries, and for years since 1987.22

D. Development of Other Financial Institutions across Income Groups

Graph 5 shows that the private credit by all 5 categories of other financial institutions increases as we move from low- to high-income countries.23 Graph 6 shows that the private credit by life insurance companies, the life insurance penetration and the life insurance density increase with GDP per capita. Interestingly, for the first two measures, the lower-middle income group exhibits the lowest medians. Also note, that the high-income countries exhibit a life insurance penetration ten times as high as lower-middle income countries and a life insurance density nearly one hundred times higher than low-income countries.

V. Stock and Bond Market Development

This part of the database defines measures of the size, the activity and the efficiency of primary and secondary stock and bond markets. By including bond markets and primary equity

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22 We are grateful to Ian Webb for technical assistance in obtaining these data.
23 Using total assets instead of private credit yields a very similar picture. The graph might give a distorted picture, especially in the case of development banks, since values of zeros are treated as “non-available”.
markets, this database improves significantly on previous work. Sources and coverage are presented, as well as the variance of these indicators over time and across income groups.

A. Indicators of Stock Market Size, Activity and Efficiency

As indicator of the size of the stock market we use the **stock market capitalization to GDP** ratio which equals the value of listed shares divided by GDP. Both numerator and denominator are deflated appropriately, with the numerator equaling the average of the end-of-year value for year t and year t-1, both deflated by the respective end-of-year CPI, and the GDP deflated by the annual value of the CPI.

To measure the activity or liquidity of the stock markets we use **stock market total value traded to GDP**, which is defined as total shares traded on the stock market exchange divided by GDP. Since both numerator and denominator are flow variables measured over the same time period, deflating is not necessary in this case.

We use the **stock market turnover ratio** as efficiency indicator of stock markets. It is defined as the ratio of the value of total shares traded and market capitalization. It measures the activity or liquidity of a stock market relative to its size. A small but active stock market will have a high turnover ratio whereas a large, while a less liquid stock market will have a low turnover ratio. Since this indicator is the ratio of a stock and a flow variable, we apply a similar deflating procedure as for the market capitalization indicator.

B. Indicators of Bond Market Size
As indicators of the size of the domestic bond market we use the private and public bond market capitalization to GDP, which equals the total amount of outstanding domestic debt securities issued by private or public domestic entities divided by GDP. Both numerator and denominator are deflated appropriately, with the numerator equaling the average of the end-of-year value for year t and year t-1, both deflated by the end-of-year CPI, and the GDP deflated by the annual value of the CPI.

C. Indicators of Primary Stock and Bond Market Size

As an indicator of the size of primary equity and debt markets, we use Equity Issues to GDP (Long-term Private Debt Issues to GDP) which equals equity issues (long term private debt issues) divided by GDP. Both numerator and denominator are in nominal terms, since both are flow variables.

D. Sources

Most of the secondary stock market data come from the IFC’s Emerging Market Database. Additional data come from Goldman Sachs’ International Investment Research. Some of the data are in local currency, some in US dollars. To deflate in a consistent way, we use the local CPI and the U.S. CPI respectively.\textsuperscript{24} Data on the secondary bond market come from the Bank for International Settlement (BIS) Quarterly Review on International Banking and Financial Market Development and are in U.S. dollars. Data on the primary equity and debt market come from country-specific sources and were collected by Aylward and Glen (1998) and

\textsuperscript{24} Using this method assumes a flexible exchange rate with respect to the U.S. dollar, so that inflation differentials are reflected by changes in the exchange rates. Although this method is far from perfect, it is relatively accurate.
from the OECD Financial Statistics Monthly.\textsuperscript{25} They are partly in local currency, partly in U.S. dollars. GDP numbers in local currency and the CPI numbers are from the International Financial Statistics, GDP numbers in U.S. dollars are from the World Bank.

Secondary stock market data are available for 93 countries starting in 1975. Secondary bond market data are available for 37 countries, mostly industrialized, and for the years since 1990. Primary market data are available for 42 countries, both industrialized and developing, for the years 1980-95.

\textit{E. Stock and Bond Market Development across Income Groups}

There is a significant variation in size, activity and efficiency of stock markets across income groups, as evident in graph 7. Countries with a higher level of GDP per capita have bigger, more active and more efficient stock markets. Richer countries also have larger bond markets and issue more equity and especially private bonds.\textsuperscript{26} Stock markets have increased in size, activity and efficiency over the last three decades, as can be seen in graph 8.

\textbf{VI. Concluding Remarks}

This paper introduced a new and unique compilation of indicators of the size, activity and efficiency of financial intermediaries and markets across countries and over time. It enables financial analysts a comprehensive assessment of the development and structure of the financial sector of countries compared to other countries and over time. It allows researchers to address a rich set of questions and issues in financial economics.

\textsuperscript{25} We are grateful to Joe Attia for collecting the data from the OECD Financial Statistics Monthly.

\textsuperscript{26} We combine the low and lower-middle income groups for the bond measures, since India is the only low-income country for which data are available.
The database is part of a broader research project that tries to understand the determinants of financial structure and its importance for economic development. Specifically, the compiled data permit the construction of financial structure indicators that measure the relative size, activity and efficiency of banks compared to stock markets. These indicators can then be used to investigate the empirical link between the legal, regulatory and policy environment and financial structure indicators [Demirgüç-Kunt and Levine 1999] as well as the implications of financial structure for economic growth.
REFERENCES


Table 1: Coverage of the Variables

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<th>Variable</th>
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<th>Number of observations</th>
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<td>Deposit Money Banks Assets to Total Financial Assets</td>
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<td>2177</td>
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<td>Total Assets of Life Insurance Companies to GDP</td>
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<tr>
<td>Total Assets of Insurance Companies to GDP</td>
<td>1980-1997</td>
<td>40</td>
<td>547</td>
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<tr>
<td>Total Assets of Private Pension and Provident Funds to GDP</td>
<td>1980-1997</td>
<td>16</td>
<td>185</td>
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<tr>
<td>Total Assets of Pooled Investment Schemes to GDP</td>
<td>1980-1997</td>
<td>27</td>
<td>295</td>
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<td>Total Assets of Development Banks to GDP</td>
<td>1980-1997</td>
<td>46</td>
<td>634</td>
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<tr>
<td>Private Credit by Other Banklike Institutions to GDP</td>
<td>1980-1997</td>
<td>43</td>
<td>652</td>
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<tr>
<td>Private Credit by Life Insurance Companies to GDP</td>
<td>1980-1997</td>
<td>17</td>
<td>258</td>
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<td>Private Credit by Insurance Companies to GDP</td>
<td>1980-1997</td>
<td>19</td>
<td>275</td>
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<tr>
<td>Private Credit by Private Pension and Provident Funds to GDP</td>
<td>1980-1997</td>
<td>11</td>
<td>126</td>
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<tr>
<td>Private Credit by Pooled Investment Schemes to GDP</td>
<td>1980-1997</td>
<td>10</td>
<td>106</td>
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<tr>
<td>Private Credit by Development Banks to GDP</td>
<td>1980-1997</td>
<td>38</td>
<td>555</td>
</tr>
<tr>
<td>Life insurance penetration</td>
<td>1987-1996</td>
<td>85</td>
<td>682</td>
</tr>
<tr>
<td>Life insurance density</td>
<td>1987-1996</td>
<td>85</td>
<td>682</td>
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<tr>
<td>Stock market capitalization to GDP</td>
<td>1976-1997</td>
<td>93</td>
<td>1171</td>
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<tr>
<td>Stockmarket total value traded to GDP</td>
<td>1975-1997</td>
<td>93</td>
<td>1264</td>
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<tr>
<td>Stock market turnover to GDP</td>
<td>1976-1997</td>
<td>93</td>
<td>1154</td>
</tr>
<tr>
<td>Private bond market capitalization to GDP</td>
<td>1990-1997</td>
<td>37</td>
<td>287</td>
</tr>
<tr>
<td>Public bond market capitalization to GDP</td>
<td>1990-1997</td>
<td>37</td>
<td>287</td>
</tr>
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<td>Equity issues to GDP</td>
<td>1980-1995</td>
<td>42</td>
<td>586</td>
</tr>
<tr>
<td>Long-term Private Debt Issues to GDP</td>
<td>1980-1995</td>
<td>40</td>
<td>508</td>
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</table>
Graph 1: Financial Intermediary Development Across Income Groups

Central Bank Assets to Total Financial Assets
Deposit Money Bank Assets to Total Financial Assets
Other Financial Institutions Assets to Total Financial Assets
Deposit Money vs. Central Bank Assets

Low
Lower middle
Upper middle
High
Graph 2: Financial Intermediary Development Across Income Groups

- Liquid Liabilities to GDP
- Central Bank Assets to GDP
- Deposit Money Bank Assets to GDP
- Other Financial Institutions Assets to GDP
- Private Credit by Deposit Money Banks to GDP
- Private Credit by Deposit Money Banks and Other Financial Institutions to GDP

Legend:
- Low
- Lower middle
- Upper middle
- High
Graph 3: Financial Intermediary Development Over Time

- Liquid Liabilities to GDP
- Central Bank Assets to GDP
- Private Credit by Deposit Money Banks to GDP
- Deposit Money Bank vs. Central Bank Assets

Legend:
- 60s
- 70s
- 80s
- 90s
Graph 4: Efficiency and Market Structure of Commercial Banks Across Income Groups

- **Net Interest Margin**
- **Overhead Cost**
- **Concentration**
- **Foreign Bank Share (Assets)**
- **Foreign Bank Share (Number)**
- **Public share**

Legend:
- Low
- Lower middle
- Upper middle
- High
Graph 6: Life Insurance Development Across Income Groups

- **Private Credit by Life Insurance Companies to GDP**
- **Life insurance penetration (premium volume to GDP)**
- **Life insurance density (premium volume in constant USD per capita), in 100s of USD**
Graph 7: Stock and Bond Market Development Across Income Groups

- Stock market capitalization to GDP
- Stockmarket total value traded to GDP
- Stock turnover to GDP
- Private bond market capitalization to GDP
- Public bond market capitalization to GDP
- Equity issues to GDP
- Long-term Private Debt Issues to GDP

Income Groups:
- Low
- Lower middle
- Upper middle
- High
Graph 8: Stock Market Development Over Time

- Stock Market capitalization to GDP
- Stock Market Total Value Traded to GDP
- Stock Market Turnover
Appendix: Sources

Section II

All raw data are from the electronic version of the IMF’s International Financial Statistics

The following lines are included in Central Bank Assets, if available

12AN.ZF---CLAIMS ON GOVERNMENT(NET)--
12A.ZF---MONAUTH:CLAIMS ON CENTRAL GOVT (LOC CURR)--
12BX.ZF---MONAUTH:CLAIMS ON OFF ENTITIES (LOC CURR)--
12B.ZF---MONAUTH:CLAIMS ON STATE & LOC GOVTS (LOC CURR)--
12CD.ZF---CLAIMS ON NONFINANCIAL ENTERP.--
12C.ZF---MONAUTH:CLAIMS ON NONFIN PUB ENTERPRISES (LOC CURR)--
12D.ZF---MONAUTH:CLAIMS ON PRIV SECTOR (LOC CURR)--

The following lines are included in Deposit Money Bank Assets, if available

22ANHZF---CLAIMS ON CENT. GOVT (NET)--
22A.HZF---CLAIMS ON CENTRAL GOVERNMENT--
22A.MZF---CLAIMS ON CENTRAL GOVERNMENT--
22A.TZF---CLAIMS ON CENTRAL GOVERNMENT--
22A.GZF---CLAIMS ON GOVERNMENT--
22AN.ZF---CLAIMS ON GOVERNMENT(NET)--
22AE.ZF---CLAIMS ON NAT.PROPERTY FUND--
22A.ZF---DEPMONBKS:CLAIMS ON CENTRAL GOVT (LOC CURR)--
22B.MZF---CLAIMS ON LOCAL GOVERNMENT--
22B.GZF---CLAIMS ON OFFICIAL ENTITIES--
22B.TZF---CLAIMS ON STATE & LOCAL GOVT.--
22BX.ZF---DEPMONBKS:CLAIMS ON OFF ENTITIES (LOC CURR)--
22B.ZF---DEPMONBKS:CLAIMS ON STATE & LOC GOVTS (LOC CURR)--
22CB.ZF---CLAIMS ON COOPERATIVES--
22C.HZF---CLAIMS ON NONFIN.PUB.ENT.--
22CA.ZF---CLAIMS ON PUBLIC CORPORATIONS--
22C.ZF---DEPMONBKS:CLAIMS ON NONFIN PUB ENTERPRISES (LOC CURR)--
22D.MZF---CLAIMS ON PRIVATE SECTOR--
22D.TZF---CLAIMS ON PRIVATE SECTOR--
22DA.ZF---CLAIMS ON SOCIALIST SECTOR--
22D.ZF---DEPMONBKS:CLAIMS ON PRIV SECTOR (LOC CURR)--
22D.IZF---TREAS: CLAIMS ON PRIVATE SECT--

The following lines are included in Other Financial Institutions Assets, if available

42BXLZF---LOCAL & SEMI-GOVT SECURITIES--
42B.XKZF---CLAIMS ON OFFICIAL ENTITIES--
42B.SZF---CLAIMS ON LOCAL GOVERNMENT--
42B.GZF---CLAIMS ON LOCAL GOVERNMENTS--
42B.BZF---CLAIMS ON OFFICIAL ENTITIES--
42B.FZF---CLAIMS ON OFFICIAL ENTITIES--
42B.KZF---CLAIMS ON OFFICIAL ENTITIES--
42B.NZF---CLAIMS ON STATE & LOCAL GOVT.--
42B.LZF---CLAIMS ON STATE AND LOCAL GOVTS.--
42BX.ZF---OTHFININST:CLAIMS ON OFF ENTITIES (LOC CURR)--
42B.ZF---OTHFININST:CLAIMS ON STATE & LOC GOVTS (LOC CURR)--
42A.LZF---CLAIMS ON CENTRAL GOVERNMENT--
42A.NZF---CLAIMS ON CENTRAL GOVERNMENT--
42A.PZF---CLAIMS ON CENTRAL GOVERNMENT--
42A.BZF---CLAIMS ON GOVERNMENT--
42A.FZF---CLAIMS ON GOVERNMENT--
42A.GZF---CLAIMS ON GOVERNMENT--
42A.HZF---CLAIMS ON GOVERNMENT--
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<td>42A.KZF</td>
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<td>42A.SZF</td>
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<td>42AN.ZF</td>
<td>CLAIMS ON GOVERNMENT (NET)</td>
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<td>42C.FZF</td>
<td>CLAIMS ON PUBLIC ENTERPRISES</td>
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<td>42C.ZF</td>
<td>OTHFININST:CLAIMS ON NONFIN PUB ENTERPRISES (LOC CURR)</td>
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<td>42D.BZF</td>
<td>CLAIMS ON PRIVATE SECTOR</td>
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<td>42D.FZF</td>
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<td>42D.GZF</td>
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<td>42D.HZF</td>
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<td>42D.KZF</td>
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<td>42D.LZF</td>
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<td>42D.MZF</td>
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<tr>
<td>42D.NZF</td>
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<td>42D.PZF</td>
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<td>42D.SZF</td>
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<td>42D.ZF</td>
<td>OTHFININST:CLAIMS ON PRIV SECTOR (LOC CURR)</td>
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<td>42H.SZF</td>
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<td>42H.LZF</td>
<td>REAL ESTATE</td>
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The following line is included in Liquid Liabilities

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<td>55L.ZF</td>
<td>FINSURVEY:LIQUID LIABS (LOC CURR)</td>
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If not available: 35L.ZF | MONSURVEY: MONEY PLUS QUASIMONEY (M2) (LOC CURR) |

The following lines are included in Private Credit by Deposit Money Banks, if available

<table>
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<th>Column</th>
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<tr>
<td>22D.GZF</td>
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<td>22D.TZF</td>
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<td>22DA.ZF</td>
<td>CLAIMS ON SOCIALIST SECTOR</td>
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<td>22D.ZF</td>
<td>DEPMONBKS:CLAIMS ON PRIV SECTOR (LOC CURR)</td>
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<td>22D.IZF</td>
<td>TREAS: CLAIMS ON PRIVATE SECT</td>
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The following lines are included in Private Credit by Deposit Money Banks and Other Financial Institutions, if available

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<td>22D.TZF</td>
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<td>DEPMONBKS:CLAIMS ON PRIV SECTOR (LOC CURR)</td>
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<td>22D.IZF</td>
<td>TREAS: CLAIMS ON PRIVATE SECT</td>
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<td>42D.BZF</td>
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<td>42D.ZF</td>
<td>OTHFININST:CLAIMS ON PRIV SECTOR (LOC CURR)</td>
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</table>
For GDP in local currency, the following line is used:

99B.ZF---NA:GROSS DOM PRODUCT (LOC CURR)---
if not available: 99B.CZF---GROSS DOMESTIC PRODUCT---

For the annual deflator the Consumer Price index, line 64...ZF, is used.
For the end-of-period deflator the December value of the Consumer Price index, line 64M..ZF, or, if not available, the 4th quarter value of line 64Q..ZF is used.

Section III

Data on all variables, except Public Share are from IBCA’s Bankscope database. The data for Public Share were collected from the following sources. If the public banks are not clearly marked in the publication, the classification is also added.

Argentina
Source: Banco Central de la Republica Argentina, Informacion de Entidades Financieras
Time span: 1995-97

Austria
Source: Gardener and Molyneux
Time span: 1983, 88

Bangladesh
Source: Bangladesh Bank, Bangladesh Bank Bulletin
Time span: 1980-97

Belgium
Source: Gardener and Molyneux
Time span: 1982, 88

Bolivia
Source: Banco Central de Bolivia, Boletin Estadistico
Time span: 1980-97

Brazil
Source: Banco Central do Brazil, Boletim Mensal
Time span: 1980-97

Canada
Source: Bankscope
Time span: 1997

Colombia
Source: Banco de la Republica, Informe Annual del Gerente a la Junta Directiva
Time span: 1986-91

Costa Rica
Source: Bankscope
Time span: 1992-97

Denmark
Source: Gardener and Molyneux
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<tr>
<th>Country</th>
<th>Source</th>
<th>Time Span</th>
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<tr>
<td>Ecuador</td>
<td>Bankscope</td>
<td>1983, 88</td>
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<td>Egypt</td>
<td>Bankscope</td>
<td>1997</td>
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<tr>
<td>Finland</td>
<td>Statistical Yearbook of Finland (share of Postpankki assets in total commercial bank assets)</td>
<td>1980-88</td>
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<tr>
<td>France</td>
<td>Gardener and Molyneux</td>
<td>1983, 88</td>
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<td>Germany</td>
<td>Gardener and Molyneux</td>
<td>1983, 88</td>
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<tr>
<td>Ghana</td>
<td>Internal World Bank information</td>
<td>1988</td>
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<td>Greece</td>
<td>Gardener and Molyneux (credit instead of assets)</td>
<td>1988</td>
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<td>Guatemala</td>
<td>Superintendencia de Bancos, Boletín Anual de Estadísticas del Sistema Financiero</td>
<td>1980-97</td>
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<td>India</td>
<td>Reserve Bank of India, Statistical Tables Relating to Banks in India</td>
<td>1980-96</td>
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<tr>
<td>Indonesia</td>
<td>Bank Indonesia, Indonesia Financial Statistics (commercial banks other than private exchange and foreign &amp; joint exchange banks)</td>
<td>1986-97</td>
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<tr>
<td>Ireland</td>
<td>Gardener and Molyneux</td>
<td>1983, 88</td>
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<td>Italy</td>
<td>Gardener and Molyneux</td>
<td>1983, 88</td>
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<tr>
<td>Japan</td>
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</table>
Source: Bankscope
Time span: 1997

**Mexico**

Source: Bankscope
Time span: 1993-94

**Netherlands**

Source: Gardener and Molyneux
Time span: 1983, 88

**New Zealand**

Source: Bankscope
Time span: 1997

**Norway**

Source: Gardener and Molyneux
Time span: 1983, 88

**Pakistan**

Source: Bankscope
Time span: 1990-96

**Philippines**

Source: The World Bank, Philippine Financial Sector Study, 7177-PH.
Time span: 1980, 86

**Portugal**

Source: Banco de Portugal, Annual Report 1997 (credit instead of assets)
Time span: 1984, 89, 97

**Spain**

Source: Gardener and Molyneux
Time span: 1983, 88

**Sri Lanka**

Source: Bankscope
Time span: 1992-96

**Sweden**

Source: Gardener and Molyneux
Time span: 1983, 88

**Switzerland**

Source: Banque Nationale Suisse, Les Banques Suisses en 19.. (share of cantonal bank assets in total commercial bank assets)
Time span: 1980-97

**Thailand**

Source: The World Bank’s report: FSS, 8043-TH
Time span: 1980, 85-88

**Tunisia**
Section IV

The following information lists the sources, the time span and the definition of the categories for each country. All numbers are total assets or total financial assets, unless otherwise stated. The sources for life penetration and density are listed at the end.

Argentina

Sources:  (a) Banco Central de la Republica Argentina, Boletin Estadestico
         (b) IFS

Assets (Source a):
Banklike Institutions  Finance companies
                      Credit companies
                      Building societies

Private credit (Source b):
Banklike Institutions  Investment finance companies
                      Credit cooperatives
                      Savings and loan associations

Australia

Source: Reserve Bank of Australia, Bulletin
Time Span: 1980-96 (Numbers are for June)

Assets:
Banklike Institutions  Permanent building societies
                      Credit cooperatives
                      Money market corporations
                      Pastoral financial companies
Finance companies
General financiers
Intra-group financiers
Other financial corporations
Co-operative housing societies
Securisation vehicles

Insurance Companies
Life insurance
General insurance offices
Friendly societies

Private Pension Funds
Superannuation funds

Pooled Investment Schemes
Other managed funds (cash management trusts, common funds)
Public unit trusts

Development Banks
Other banks (Australian Resource Development Bank, Commonwealth Development Bank and, prior to reclassification in 1988 to trading banks, the Primary Industry Bank of Australia.)

Private credit:
Lines included: total loans excluding loans to related companies, unless otherwise noted

Banklike Institutions
Permanent building societies
Credit cooperatives
Money market corporations
Pastoral financial companies
Finance companies
General financiers
Securisation vehicles (all assets except other assets)

Insurance Companies:
Life insurance (debentures & notes, shares, other investments and loans)

Private Pension Funds
Superannuation funds (bills of exchange, debentures & notes, domestic shares and loans)

Pooled Investment Schemes
Cash management trusts (bills of exchange and other promissory notes)
Public unit trusts (bills of exchange, debentures & notes, domestic shares & loans)

Development Banks
Other banks (Australian Resource Development Bank, Commonwealth Development Bank and, prior to reclassification in 1988 to trading banks, the Primary Industry Bank of Australia.)

Austria

Source: Oesterreichische Nationalbank, Mitteilungen
Time span: 1980-97

Assets
Banklike Institutions Building societies
Insurance Companies All insurance companies
Private Pension Funds Pension funds
Pooled Investment Schemes Investment funds

Private credit
Lines included: other domestic bonds, other domestic obligations, shares, other domestic loans

Banklike Institutions Building societies
Insurance Companies All insurance companies
Private Pension Funds Pension funds
Pooled Investment Schemes
Investment funds

Bahamas
Sources: (a) Central Bank of the Bahamas, Statistical Digest
(b) IFS
Time Span: 1980-97
Assets (Source a):
Banklike Institutions
Other local financial institutions
PO savings bank
Development Banks
Bahamas Development Bank
Private credit:
Banklike Institutions (Source b)
Licensed banks and trust companies other than commercial banks (corresponds to other local financial institutions)
Development Banks (Source a)
Bahamas Development Bank (total loans)

Barbados
Sources: (a) through 1995: Central Bank of Barbados, Annual Statistical Digest, and after 1995: Central Bank of Barbados, Economic and Financial Statistics
(b) IFS
Time span: 1980-97
Assets (Sources a):
Banklike Institutions
Mortgage and finance companies
Finance companies and merchant banks
Insurance Companies
National Insurance companies Fund
Development Banks
Barbados Development Bank
Private credit (Source b):
Banklike Institutions
Trust companies

Belgium
Sources: (a) Bulletin of Banque Nationale de Belgique
(b) Annuaire Statistique de la Belgique
(c) OECD Methodological Supplement
Time span: 1980-1993, incomplete data
Assets:
Banklike Institutions
Savings banks (Source a)
Caisse generale d’épargne et de retraite, (Source a)
Mortgage companies and capital redemption companies (Source c)
Insurance Companies
Insurance companies (includes life insurance, Source b)
Life insurance companies (Source a)
Private Pension Funds
Pension funds (Source c)
Pooled Investment Schemes
Institutions pour placement collectif (Source b)
Development Banks
Public financial credit intermediaries (Source c)

Belize
Sources: (a) Central Bank of Belize, Quarterly Review
(b) IFS
Time span: 1980-97
**Bolivia**

Sources:  
(a) Banco Central de Bolivia, Boletin estadistico  
(b) IFS  
Time span: 1980-97

**Assets (Source a):**
Development Banks | Specialized banks

**Private credit (Source b):**
Development Banks | Specialized banks (Mining Bank, Agricultural Bank, Industrial Bank, Industrial Financing Bank)

**Brazil**

Source:  
Banco do Brazil, Boletim Mensal  
Time span: 1980-97

**Assets:**
Banklike Institutions | Investment banks  
Housing credit companies  
S&L associations  
Leasing companies  
Insurance Companies | Insurance companies  
Pension Funds | Private pension funds  
Pooled Investment Schemes | Mutual Funds  
Investment institutions and investment funds  
Development Banks | National Bank of Economic and Social Development  
State development banks  
Credit Society of Finance and Investment  
National Housing Bank  
National Bank of Cooperative Credit  
Special Industrial Financing Agency

**Private credit:**
Line included: total credit to private nonfinancial sector

Banklike Institutions | Investment banks  
Housing credit companies  
Leasing companies  
Development Banks | National Bank of Economic and Social Development  
State development banks  
Credit Society of Finance and Investment  
National Housing Bank  
National Bank of Cooperative Credit

**Canada**

Sources:  
(a) National Balance Sheet Accounts, Statistics Canada  
(b) IFS  
Time span: 1980-97

**Assets (Source a):**
Banklike Institutions | Quebec Savings Bank, since 87 included in chartered banks
Credit unions and caisses populaires
Sales finance and consumer loan companies
Other financial institutions (venture capital companies, finance leasing companies and investment and holding companies)
Trust companies and mortgage loan companies

Private Pension Funds
Trusteed pension plans

Insurance Companies
Life insurance business and segregated funds of life insurance companies
Property and casualty insurance companies and accident and sickness branches of life insurance companies

Poled Investment Schemes
Mutual funds

Development Banks
Public financial institutions

Private credit:
The following lines are included in data collected from Source a: trade receivables, consumer credit, other loans, mortgages, other bonds and shares

Banklike Institutions (Source b) Quebec Savings Bank, since 87 included in chartered banks
Credit unions and caisses populaires
Sales finance and consumer loan companies
Trust companies and mortgage loan companies

Private Pension Funds
Trusteed pension plans (Source a)

Insurance Companies (Source a)
Life insurance business and segregated funds of life insurance companies
Property and casualty insurance companies and accident and sickness branches of life insurance companies

Poled Investment Schemes
Mutual funds

Development Banks (Source a)
Public financial institutions

Chile

Sources:
(a) Banco Central de Chile, Boletin Mensual
(b) Chile finanzas, webpage
(c) IFS


Assets:
Banklike Institutions
Financial companies (Source a)

Insurance Companies
Life and nonlife insurance companies (Source b)

Private Pension Funds
Private pension funds (Source b)

Poled Investment Schemes
Foreign capital investment funds (Source b)
Investment funds (Source b)
Mutual funds (Source b)

Private credit:
Lines included in data collected from Source b are: stocks, mortgage backed securities, corporate bonds

Banklike Institutions
Financial companies (Source c)

Insurance Companies
Life and nonlife insurance companies (Source b)

Private Pension Funds
Private pension funds (Source b)

Poled Investment Schemes
Foreign capital investment funds (Source b)
Investment funds (Source b)
Mutual funds (Source b)
### Colombia

Source: Banco de la Republica, Revista del Banco de la Republica  
Time span: 1980-1996

<table>
<thead>
<tr>
<th>Assets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banklike Institutions</td>
</tr>
<tr>
<td>Savings and housing corporations</td>
</tr>
<tr>
<td>Private finance companies.</td>
</tr>
<tr>
<td>Trade finance companies</td>
</tr>
<tr>
<td>Financial corporations</td>
</tr>
<tr>
<td>Banco Central Hipotecario</td>
</tr>
<tr>
<td>Caja Social de Ahorros</td>
</tr>
<tr>
<td>Development Banks</td>
</tr>
<tr>
<td>Caja de Credito Agrario, Industrial y Minero</td>
</tr>
<tr>
<td>Financiera Energetica Nacional</td>
</tr>
<tr>
<td>Instituto de Fomento Industrial</td>
</tr>
</tbody>
</table>

Private credit:  
Line included in: credito al sector privado

<table>
<thead>
<tr>
<th>Assets</th>
</tr>
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<tbody>
<tr>
<td>Banklike Institutions</td>
</tr>
<tr>
<td>Savings and housing corporations</td>
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<tr>
<td>Financiera Energetica Nacional</td>
</tr>
<tr>
<td>Instituto de Fomento Industrial</td>
</tr>
</tbody>
</table>

### Denmark

Sources:  
(a) Statistical Yearbook of Denmark  
(b) Reports and Accounts for the Year …, Danmarks Nationalbank  
Time span: 1980-95

<table>
<thead>
<tr>
<th>Assets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banklike Institutions</td>
</tr>
<tr>
<td>Mortgage credit associations and local governments' credit association (Source a)</td>
</tr>
<tr>
<td>Financing companies (Source b)</td>
</tr>
<tr>
<td>Denmarks Skibskreditfond (Source a)</td>
</tr>
<tr>
<td>Manufacturing &amp; Manual Industries' Finance Corporation (Source a)</td>
</tr>
<tr>
<td>The Mortgage Bank of the Kingdom of Denmark (Source a)</td>
</tr>
<tr>
<td>The Fisheries Bank of the Kingdom of Denmark (Source a)</td>
</tr>
<tr>
<td>Insurance Companies(Source a)</td>
</tr>
<tr>
<td>Life insurance companies</td>
</tr>
<tr>
<td>Non-life insurance companies</td>
</tr>
<tr>
<td>Private Pension Funds</td>
</tr>
<tr>
<td>Private Pension funds (Source a)</td>
</tr>
<tr>
<td>Pooled Investment Schemes</td>
</tr>
<tr>
<td>Investment associations (Source b)</td>
</tr>
</tbody>
</table>

Private credit (Source b):  
Banklike Institutions  
Financing companies (leasing assets and loans)  
Mortgage credit associations (total lending)

### Dominican Republic

Source: Banco Central de la Republica Dominicana, Boletin Mensual  
Time span: 1980-97

<table>
<thead>
<tr>
<th>Assets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banklike Institutions</td>
</tr>
<tr>
<td>Private non-financial intermediaries (devt. banks, mortgage banks and S&amp;L associations)</td>
</tr>
</tbody>
</table>
Development Banks  Public non-financial intermediaries

Private credit:
Line included: Credito interno al sector privado

Banklike Institutions  Private non-financial intermediaries (devt. banks, mortgage banks and S&L associations)

Development Banks  Public non-financial intermediaries

Ecuador

Sources:  (a) Banco Central de Ecuador, Boletin anuario
(b) Banco Central de Ecuador, Memoria annual
Time span: 1980-94

Assets (Source a):
Banklike Institutions  S&L associations
Insurance Companies  Insurance companies
Private finance companies
Development Banks  National Development Bank
National Housing Bank
National Financial Corporation

Private credit (Source b):
line included: credito al sector privado

Banklike Institutions  S&L associations
Private finance companies
Development Banks  National Development Bank
National Housing Bank
National Financial Corporation

Egypt

Sources:  (a) Economic Review, Central Bank of Egypt.
(b) Annual Report, Central Bank of Egypt
(c) IFS
Time span: 1980-97

Assets:
Development Banks  Specialized banks (Source a)
Insurance Companies  Investment by insurance companies (Source b)

Private credit
Development Banks  Specialized banks (Source c)
Insurance Companies  Insurance companies (Source b, included lines: securities and loans, other than of/to govt.)

El Salvador

Sources:  (a) Banco Central de Reserva de El Salvador, Boletin trimestral
(b) Superintendencia del Sistema Financiero, Estados e indicadores financieros and
(c) Superintendencia de Bancos y Otras Instituciones, Estadisticas: Seguros, Fianzas, Bancos
(d) IFS
Time span: 1980-97

Assets
Banklike Institutions  Finance companies (Source a), earlier called S&L associations
General warehouses (Source b)

Insurance Companies
  Insurance companies (Source c)

Development Banks
  Official credit institutions (Source b)

Private credit (Source d):
  Banklike Institutions
    Finance companies

Fiji

Sources:
  (a) Bureau of Statistics, Current Economic Statistics
  (b) IFS

Time span: 1980-97

Assets (Source a):
  Insurance Companies
    Non-life insurance companies
    Life insurance companies

Private credit (Source b):
  Insurance Companies
    Life insurance companies

Finland

Sources:
  (a) Statistical yearbook of Finland
  (b) OECD Methodological Supplement

Time span: 1980-94

Assets:
  Banklike Institutions
    Mortgage banks (Source b)
    Finance companies (Source b)
    Others (development and investment companies, banking houses, holding companies and pawnshops) (Source b)

  Insurance Companies
    Insurance companies and associations (Source b)

  Pooled Investment Schemes
    Mutual funds (Source a)
    Unit trusts (Source a)

  Development Banks
    Development credit institutions (Source b)

France

Source: Banque de France, Statistiques monétaires et financières annuelles

Time span: 1980-96

Assets:
  Banklike Institutions
    Finance companies and security houses

  Pooled investment funds
    Fonds communs de créances
    OPCVM (organismes de placement collectif en valeurs mobilières)

  Development Banks
    Specialized financial institutions

Private credit:
  Line included: Créance sur l'économie

  Banklike Institutions
    Finance companies and security houses

  Pooled Investment Schemes
    Fonds communs de créances
    OPCVM (organismes de placement collectif en valeurs mobilières)

  Development Banks
    Specialized financial institutions
**Germany**

Sources: (a) Monthly Bulletin, Bundesbank  
(b) Capital Market Statistics, Bundesbank  
(c) IFS  

**Assets:**  
Banklike Institutions: Building societies (Source a)  
Pooled Investment Schemes: Investment and securities-based investment funds (Source b)  
Private credit (Source c):  
Banklike Institutions: Building societies

**Greece**

(b) Annual Report, Bank of Greece  
(c) IFS  
Time span: 1980-97

**Assets:**  
Pooled Investment Schemes: Mutual funds (Source b)  
Development Banks: Specialized credit institutions, include: the Agricultural Bank, the National Mortgage Bank, the Investment Bank, the National Investment Bank for Industrial Development, the Hellenic Industrial Development Bank, The National Housing Bank, the Deposits and Loan Fund and Postal Savings Banks. (Source a)  
Private credit (Source c)  
Development Banks: Specialized credit institutions

**Guatemala**

Source: Superintendencia de Bancos, Boletin annual de estadisticas del sistema financiero  
Time span: 1980-97

**Assets:**  
Banklike Institutions: Private finance companies  
Insurance Companies: Insurance companies  
Development Banks: National Financial Corporation

**Guyana**

Source: Bank of Guyana, Statistical Bulletin  
Time span: 1980-92

**Assets**  
Banklike Institutions: New Building Society, Trust companies, Guyana co-operative mortgage finance bank  
Insurance Companies: Life insurance companies, Nonlife insurance companies  
Private Pension Funds: Pension schemes
<table>
<thead>
<tr>
<th>Private credit:</th>
<th>Line included: private sector</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Banklike Institutions</strong></td>
<td>New Building Society</td>
</tr>
<tr>
<td></td>
<td>Trust companies</td>
</tr>
<tr>
<td></td>
<td>Guyana Co-operative Mortgage Finance Bank</td>
</tr>
<tr>
<td><strong>Insurance Companies</strong></td>
<td>Life insurance companies</td>
</tr>
<tr>
<td></td>
<td>Nonlife insurance companies</td>
</tr>
<tr>
<td><strong>Private Pension Funds</strong></td>
<td>Pension schemes</td>
</tr>
</tbody>
</table>

**Honduras**

Sources:  
(a) Banco Central de Honduras, Boletín de estadísticas de seguros  
(b) Banco Central de Honduras, Boletín estadístico  
Time span: 1980-97

<table>
<thead>
<tr>
<th><strong>Assets:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Banklike Institutions (Source b)</td>
</tr>
<tr>
<td>Insurance Companies</td>
</tr>
<tr>
<td>Development Banks (Source b)</td>
</tr>
</tbody>
</table>

**Private credit (Source b)**

Line included: credito e inversiones, sector privado

<table>
<thead>
<tr>
<th><strong>Banklike Institutions (Source b)</strong></th>
<th>Specialized finance companies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development Banks (Source b)</td>
<td></td>
</tr>
</tbody>
</table>

**India**

Sources:  
(a) Reserve Bank of India, Report on Currency and Finance  
(b) Life Insurance companies Corporation of India, Annual Report  
(c) IFS  
Time span: 1980-95, missing data

<table>
<thead>
<tr>
<th><strong>Assets:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Insurance Companies</td>
</tr>
<tr>
<td>Pooled Investment Schemes (Source a)</td>
</tr>
<tr>
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<tr>
<td>Development Banks (Source a)</td>
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</tbody>
</table>

**Private credit (Source c):**

<table>
<thead>
<tr>
<th><strong>Development Banks</strong></th>
</tr>
</thead>
</table>

**Indonesia**

Source: Bank Indonesia, Indonesia Financial Statistics  
Time span: 1980-94
### Assets:

<table>
<thead>
<tr>
<th>Banklike Institutions</th>
<th>Other credit institutions; TSB Bank, ACC Bank, ICC Bank and ICC Investment Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial companies</td>
<td>Building societies</td>
</tr>
<tr>
<td></td>
<td>Hire-purchase finance companies</td>
</tr>
</tbody>
</table>

| Development Banks     | Development Banks |

### Private credit:

*line included: claims on private enterprises and individuals*

### Ireland

**Sources:**
- (a) Central Bank of Ireland, Annual Report  
- (b) IFS  

**Time span:** 1980-96

**Assets (Source a):**

<table>
<thead>
<tr>
<th>Banklike Institutions</th>
<th>Non-associated banks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Other credit institutions; TSB Bank, ACC Bank, ICC Bank and ICC Investment Bank</td>
</tr>
<tr>
<td></td>
<td>Building societies</td>
</tr>
<tr>
<td></td>
<td>Hire-purchase finance companies</td>
</tr>
</tbody>
</table>

| Pooled Investment Schemes | Collective investment schemes, authorized by the CB - total net asset values |

**Private credit (Source b):**

| Banklike Institutions | definition varies over time |

### Israel

**Sources:**
- (a) Central Bureau of Statistics, Statistical Abstract of Israel  
- (b) Central Bureau of Statistics, Monthly Bulletin of Statistics  

**Time span:** 1980-95

**Assets:**

<table>
<thead>
<tr>
<th>Banklike Institutions (Source a)</th>
<th>Industrial investment finance banks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mortgage banks</td>
</tr>
</tbody>
</table>

| Insurance Companies              | Insurance companies (Source a)      |
|                                  |                                     |

| Pooled Investment Schemes       | Mutual funds (Source b)             |

### Italy

**Sources:**
- (a) Annuario Statistico  
- (b) Banca d’Italia, Economic Bulletin  

**Time span:** 1980-96

**Assets:**

<table>
<thead>
<tr>
<th>Banklike Institutions</th>
<th>Specialized credit institutions (Source a)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insurance Companies (Source a)</td>
<td>Life insurance companies</td>
</tr>
<tr>
<td></td>
<td>Other insurance companies</td>
</tr>
</tbody>
</table>

| Pooled Investment Schemes       | Investment funds and securities investment funds (Source b) |
Jamaica

Sources: (a) Bank of Jamaica, Statistical Digest
(b) Bank of Jamaica, Annual Report
(c) IFS
Time span: 1980-96

Assets:
Banklike Institutions
(Source a) Finance houses and trust companies
Merchant banks
Building societies
Credit unions
Trust companies

Development Banks
(Source b) National Development Bank
Agricultural Credit Bank
Trafalgar Development Bank

Private credit (Source c):
Banklike Institutions
Merchant banks, finance houses and trust companies

Japan

Sources: (a) Research and Statistics Department, Bank of Japan, Economic Statistics Annual
(b) Research and Statistics Department, Bank of Japan, Economic Statistics Monthly
Time span: 1980-97

For most categories total assets, for some categories sum of principal assets

Assets:
Banklike Institutions
(Source a) Zenshinren banks
Credit cooperatives
Shinkumi Federation Bank / Natl Federation of Credit Cooperatives
Labor credit associations
Natl. Federation of Labor Credit Associations
Agricultural cooperatives
Credit Federation of Agric. Cooperatives
Fishery cooperatives
Credit Federation of Fishery Cooperatives
Postal Savings Bank- total deposits
Foreign banks
Securities finance companies
Securities investment trusts
Trust accounts of deposit money banks (includes city, regional and trust banks)
Postal Life Insurance companies and Postal Annuity.

Insurance Companies
(Source b) Life insurance companies.
Non-life insurance companies.
Mutual Insurance companies Federations of Agricultural Cooperatives

Development Banks
(Source b) Government financial institutions: Japan Devt. Bank, Export-Import Bank,
Forestry & Fisheries Finance Corp., Small Buinness Corp., Japan Finance Corp. for Municipal Enterprises,
Small Business Credit Insurance companies Corp., Environmental Sanitation Business Finance Corp.,
Okinawa Devt. Finance and Medical Care Facilities Finance Corp.
Trust Fund Bureau

Private credit
Lines included are: loans, corporate bonds, stocks
Banklike Institutions
(Source a) Zenshinren banks
Credit cooperatives
Shinkumi Federation Bank / Natl Federation of Credit Cooperatives
Labor credit associations
Natl. Federation of Labor Credit Associations
Agricultural cooperatives
Credit Federation of Agric. Cooperatives
Fishery cooperatives
Credit Federation of Fishery Cooperatives
Foreign banks
Securities finance companies
Securities investment trusts
Trust accounts of deposit money banks (includes city, regional and trust banks)

Insurance Companies
(Source b)
Life insurance companies.
Non-life insurance companies.
Mutual Insurance companies Federations of Agricultural Cooperatives

Development Banks
(Source b)
Government financial institutions

Jordan

Sources: (a) Monthly Statistical Bulletin
(b) Central Bank of Jordan, Annual Report,
(c) IFS
Time span: 1980-96 with missing data

Assets
Banklike Institutions (Source a)
Other financial corporations, including: finance companies, investment companies, securities companies. However, institutions included may change from time to time.

Insurance Companies
(Source b) Insurance companies companies.

Development Banks
(Source b) Specialized credit institutions, including Cities and Village Development Bank, Industrial Development Banks, Housing and Development Corporation, Agricultural Credit Corporations and Jordan Co-operative Organization

Private credit:
Banklike Institutions (Source a)
Other financial corporations (loans and corporate bonds/shares)

Insurance Companies (Source b) Insurance companies (investment in shares)

Development Banks (Source c)
Specialized credit institutions (included institutions vary over time)

Kenya

Sources: (a) Central Bank of Kenya, Quarterly Economic Review
(b) Central Bank of Kenya, Statistical Bulletin
(c) IFS
Time span: 1980-97

Assets:
Banklike Institutions
Kenya Post Office Savings Bank.(data since 84 from Source b, before 84 from a)
Nonbank financial institutions.(Source b)

Private credit (Source c):
Banklike Institutions
Banklike financial institutions

Korea

Sources: (a) Bank of Korea, Monthly Statistical Bulletin
(b) IFS
Time span: 1980-97

**Assets (Source a):**

**Banklike Institutions**
- Mutual savings and finance companies
- Credit unions
- Community credit cooperatives
- Postal Savings and Postal Life Insurance companies
- Mutual credits
- Investment institutions
- Investment and finance institutions, since 93 incl. in merchant banks
- Merchant banking companies
- Investment trust companies
- Korea securities and finance companies
- Trust accounts of banks

**Insurance Companies**
- Non-life insurance companies
- Life insurance companies

**Development Banks**
- Korea Development Bank
- Export-Import Bank of Korea
- Korea Long-Term Credit Bank

**Private credit**
Lines included in data collected from source a: loans, stocks, debentures

**Banklike Institutions**
- Mutual savings and finance companies (Source a)
- Credit unions (Source a)
- Community credit cooperatives (Source a)
- Mutual credits (Source a)
- Trust accounts of banks

**Insurance Companies**
- Life insurance companies (Source b)

**Development Banks**
- Development Banks (Source b)

**Malawi**

Source: Reserve Bank of Malawi, Financial and Economic Review
Time span: 1981-97

**Assets:**

**Banklike institutions**
- New Building Society
- P.O.Savings Bank
- Natl. Finance Company
- Leasing and Finance Company

**Insurance Companies**
- Insurance companies and Assurance Companies

**Development Banks**
- Investment and Development Bank

**Private credit**
Lines included: Private sector

**Banklike institutions**
- New Building Society
- National Finance Company

**Insurance Companies**
- Insurance companies and assurance companies

**Development Banks**
- Investment and Development Bank

**Malaysia**

Sources: (a) Bank Negara Malaysia, Quarterly Bulletin
(b) Bank Negara Malaysia, Money and Banking in Malaysia
(c) Annual Report of the Director General of Insurance companies.

Time span: 1980-97

**Assets:**

Banklike Institutions
- National Savings Bank (used to be Post Savings bank before 1974, Source b).
- Co-operative societies (Source b).
- Merchant banks (Source a)
- Discount houses (Source b)
- Finance companies (Source a)
- Building societies, Pilgrims Management and Fund Board, Cagamas Berhard,
  Credit Guarantee Corporation, leasing, factoring and venture capital companies (Source b)

Insurance Companies (Source c)
- Life insurance funds
- General insurance funds

Pooled Investment Schemes
- Unit trust (Source b)

Development Banks
- Development institutions (Malaysia Industrial Development Finance, Agricultural Bank, Borneo Development Corporation, Sabah Credit Corporation, Development Bank of Malaysia, Industrial Bank of Malaysia, Sabah Development Bank). (Source b)

**Private credit**

Lines included are: Loans and corporate bonds/stocks

Banklike Institutions
- National Savings Bank (used to be Post Savings bank before 1974, Source b).
- Co-operative societies (saving institutions, Source b).
- Merchant banks (Source a)
- Discount houses (Source b)
- Finance companies (Source a)
- Building societies, Pilgrims Management and Fund Board, Cagamas Berhard,
  Credit Guarantee Corporation, leasing, factoring and venture capital companies (Source b)

Insurance Companies(Source c)
- Life insurance funds
- General insurance funds

Development Banks
- Development institutions (Malaysia Industrial Development Finance, Agricultural Bank, Borneo Development Corporation, Sabah Credit Corporation, Development Bank of Malaysia, Industrial Bank of Malaysia, Sabah Development Bank). (Source b)

**Malta**

Source: IFS
Time span: 1980-97

**Private credit**

Banklike institutions
- Banks that grant long-term loans and do not offer deposits

**MEXICO**

Sources: (a) Banco de Mexico, Indicadores Economicos
(b) IFS
Time span: 1980-97
All numbers are recursos totales

**Assets (Source a):**

Banklike Institutions
- Factoring companies
- Leasing companies
- Warehouse companies

Insurance Companies
- Insurance companies

Development Banks
- Development Banks
- Development funds
Private credit:
Banklike Institutions
(Source a)
Factoring companies (cartera de factoraje con recursos y deudores diversos)
Leasing companies (cartera vigente)
Warehouse companies (otras inversiones, creditos, deudores diversos)
Insurance Companies
Insurance companies (inversiones, prestamos/creditos al sector privado, deudores)
Development Banks
(Source b)
Development Banks
Development funds

Morocco
Source: IFS
Time span: 1980-96
Private credit:
Development Banks
National Development Bank, National Agriculture Bank, Credit Immobilier et Hotelier
Caisse de Depots et de Gestion, Caisse des Marches

Netherlands
Sources: (a) Nederlandse Bank, Annual Bulletin
(b) OECD, Methodological Supplement
Time span: 1980-96
Assets:
Banklike Institutions
Mortgage banks and building societies (Source b)
Private sector financial institutions: lombard banks/finance companies, special institutions
for financing export and industry, bill-brokers, municipal credit banks) (Source b)
Savings banks til 82 (classification according to OECD), for Private credit til’ 85
Insurance Companies
Life and nonlife insurance companies (source a)
Private Pension Funds
Private pension funds (Source a)
Pooled Investment Schemes
Open-end investment companies (Source b) til 1990
Investment institutions (Source a) since 1991
Development Banks
Local government banks (Source b)

Private credit (Source a):
Included lines are: short-term claims on persons/businesses, domestic securities by private sector, loans to the private sector
shares, mortgage loans

Insurance Companies
Life and nonlife insurance companies
Private Pension Funds
Private pension funds

New Zealand
Sources: (a) Reserve Bank of New Zealand, Bulletin
(b) IFS
Time span: 1980-1996
Assets (Source a):
Insurance Companies
Life insurance companies

Private credit (Source b):
Insurance Companies
Life insurance companies

Nigeria
Source: Central Bank of Nigeria, Annual report
Time span: 1980-95 with missing data

**Assets:**

<table>
<thead>
<tr>
<th>Banklike Institutions</th>
<th>Community banks, privately owned micro-finance institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Discount houses</td>
</tr>
<tr>
<td></td>
<td>Primary mortgage institutions</td>
</tr>
<tr>
<td></td>
<td>Finance companies</td>
</tr>
<tr>
<td>Insurance Companies</td>
<td>Insurance companies</td>
</tr>
<tr>
<td>Development Banks</td>
<td>Nigerian Bank for Commerce and Industry</td>
</tr>
<tr>
<td></td>
<td>People's Bank of Nigeria</td>
</tr>
<tr>
<td></td>
<td>Nigerian Agricultural and Co-operative Bank</td>
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<td></td>
<td>Federal Mortgage Bank of Nigeria</td>
</tr>
<tr>
<td></td>
<td>Nigerian Industrial Development Bank</td>
</tr>
</tbody>
</table>

**Private credit:**

Included lines are: loans and private securities

<table>
<thead>
<tr>
<th>Banklike Institutions</th>
<th>Community banks, privately owned micro-finance institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Primary mortgage institutions</td>
</tr>
<tr>
<td></td>
<td>Finance companies</td>
</tr>
<tr>
<td>Insurance Companies</td>
<td>Insurance companies</td>
</tr>
<tr>
<td>Development Banks</td>
<td>Nigerian Bank for Commerce and Industry</td>
</tr>
<tr>
<td></td>
<td>People's Bank of Nigeria</td>
</tr>
</tbody>
</table>

**Norway**

Sources: (a) Central Bureau of Statistics of Norway, Statistical Yearbook  
(b) Bank of Norway, Economic Bulletin  
(c) IFS

Time span: 1980-95

**Assets (Source a):**

<table>
<thead>
<tr>
<th>Banklike Institutions</th>
<th>Private credit enterprises/mortgage institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Private financial companies</td>
</tr>
<tr>
<td>Insurance Companies</td>
<td>Life insurance companies</td>
</tr>
<tr>
<td></td>
<td>Non-life insurance companies</td>
</tr>
<tr>
<td>Pension Schemes</td>
<td>Private and municipal pension schemes</td>
</tr>
<tr>
<td>Pooled Investment Schemes</td>
<td>Unit trust funds</td>
</tr>
<tr>
<td>Development Banks</td>
<td>State lending institutions</td>
</tr>
</tbody>
</table>

**Private credit:**

Lines included in data collected from source b are: other bonds, other certificates, loans to the public/nonfinancial enterprises and municipalities, shares, definitions vary over time and across categories

<table>
<thead>
<tr>
<th>Banklike Institutions (Source b)</th>
<th>Private Credit enterprises/Mortgage Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Private financial companies</td>
</tr>
<tr>
<td>Insurance Companies (Source b)</td>
<td>Life insurance companies</td>
</tr>
<tr>
<td></td>
<td>Non-life insurance companies</td>
</tr>
<tr>
<td>Pension Schemes (Source b)</td>
<td>Private and municipal pension schemes</td>
</tr>
<tr>
<td>Pooled Investment Schemes (Source c)</td>
<td>Unit trust funds</td>
</tr>
<tr>
<td>Development Banks (Source c)</td>
<td>State lending institutions</td>
</tr>
</tbody>
</table>
### Pakistan

**Sources:**
- (a) State Bank of Pakistan, Banking Statistics
- (b) The Pakistan Insurance companies Yearbook

**Time span:** 1980-95

**Assets:**
- **Insurance Companies** (Source b) State Life Insurance companies Corporation
- Non-life insurance companies

**Development Banks** (Source a)
- Agricultural Development Bank of Pakistan
- Industrial Development Bank of Pakistan
- Pakistan Industrial Credit and Investment Corporation
- National Development Finance Corporation
- House Building Finance Corporations
- Pakistan-Kuwait Investment Company Ltd.
- Pak-Libya Holding Company Ltd.
- Saudi-Pak Industrial and Agricultural Investment Company Ltd.
- Bankers Equity Ltd.

### Paraguay

**Source:** Banco Central de Paraguay, Boletin Estadistico

**Assets:**
- **Banklike Institutions** S&L associations for housing
- Finance companies

**Development Banks**
- National Development Bank
- Cattle Fund

### Peru

**Source:** IFS

**Time span:** 1980-97

**Private credit**
- Development Banks 5 Development Banks

### Philippines

**Source:** National Census and Statistics Office, Philippine Yearbook

**Time span:** 1980-90

All numbers are total resources

**Assets:**
- **Banklike Institutions** Thriftbanks (Savings banks, private development banks, stock S&L associations)
- Rural non-deposit banks
- Financing companies
- Venture capital corporations
- Pawnshops
- Lending investors
- Nonstock savings and loan associations
- Mutual building and loan associations

- **Insurance Companies** Life insurance companies
- Nonlife insurance companies

- **Private Pension Funds** Funds manager

- **Pooled Investment Schemes** Investment companies
Development Banks: Specialized government banks (Development Bank of the Philippines, Land Bank of the Philippines, Philippine Amanah Bank)

**Portugal**

Source: Instituto Nacional de Estatistica, Estatisticas monetarias e financeiras

**Assets:**
Banklike Institutions: Agricultural credit cooperatives, Central agricultural credit cooperatives, Finance and credit companies, Other intermediaries
Insurance Companies: Life insurance companies, Nonlife insurance companies
Pension Funds: Private Pension funds
Pooled Investment Schemes: Investment funds
Development Banks: National Development Bank

**Hwanda**

Source: IFS
Time span: 1980-96

**Private credit**
Development Banks: Development Bank

**Saudi Arabia**

Source: IFS
Time span: 1980-96

**Private credit**
Development Banks: Saudi Agricultural Bank, Saudi Industrial Development Fund, Public Investment Fund, Real Estate Development Fund, Saudi Credit Bank

**Singapore**

Sources: (a) Monetary Authority of Singapore, Monthly statistical bulletin
(b) Monetary Authority of Singapore, Annual Report
(c) Development Bank of Singapore, Annual Report
(d) IFS
Time span: 1980-96

**Assets:**
Banklike Institutions: Finance companies (Source a), Merchant banks (Source a), Total amount lent by pawnbrokers (Source a)
Insurance Companies: Insurance companies (Source b)
Development Bank: Development Bank of Singapore (Source c)

**Private credit:**
Banklike Institutions: Finance companies (Source d)
Insurance Companies: Life insurance offices (Source d)
Development Bank: Development Bank of Singapore (Source c, lines included: loans, investments, equity and corporate bonds)
### Solomon Islands

Source: Central Bank of Solomon Islands, Annual report  
Time span: 1985-93

<table>
<thead>
<tr>
<th>Assets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banklike institutions</td>
</tr>
<tr>
<td>Development Banks</td>
</tr>
</tbody>
</table>

### South Africa

Source: South African Reserve Bank, Quarterly Bulletin  
Time span: 1980-97

<table>
<thead>
<tr>
<th>Assets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banklike Institutions</td>
</tr>
<tr>
<td>Insurance Companies</td>
</tr>
<tr>
<td>Pooled Investment Schemes</td>
</tr>
<tr>
<td>Pension Funds</td>
</tr>
</tbody>
</table>
| Development Bank | National Finance Corporation of South Africa  
|                  | Land and Agricultural Bank of South Africa |

### Private credit:

Lines included are: loans other than to public sector and other securities

| Insurance Companies | Long-term insurers (life) |
| Private self-administered pension and provident funds |

### Spain

Sources:  
(a) Banco de Espana, Boletin Estadistico  
(b) Banco de Espana, Cuentas financieras de la economia espanola  
(c) IFS  
Time span: 1980-97

<table>
<thead>
<tr>
<th>Assets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banklike Institutions (Source a)</td>
</tr>
<tr>
<td>Insurance Companies (Source b)</td>
</tr>
<tr>
<td>Pooled Investment Schemes: (Source a)</td>
</tr>
<tr>
<td>Development Banks: (Source a)</td>
</tr>
</tbody>
</table>

### Private credit:

| Insurance Companies (Source c) | Specialized credit institutions (money market intermediary companies, mortgage loan companies, financial leasing companies, finance and factoring companies and other specialised credit institutions |
| (Source b) | Insurance companies (short-term securities, bonds, shares and loans, all of these to non-financial enterprises and households) |
Sri Lanka

Sources: 
(a) Central Bank of Sri Lanka, Bulletin  
(b) Annual report of National Savings Bank  
(c) Annual report of National Development Bank  
(d) Annual report of Development Finance Corporation

Time span: 1980-96

Assets:
Banklike Institutions: National Savings Bank (Source b)  
Development Banks: Development Finance Corporation, total loans and equities outstanding (Source d)  
State Mortgage and Investment Bank, total loans outstanding (Source a)  
National Development Bank (Source c)

Private credit:
Included line is: total loans
Banklike Institutions: National Savings Bank (Source b)  
Development Banks: Development Finance Corporation (Source d)  
National Development Bank (Source c)

Sweden

Sources:  
(a) Sveriges Riksbank, Statistical Yearbook  
(b) IFS

Time span: 1980-97

Assets (Source a):
Banklike Institutions: Finance companies  
Mortgage companies (local govt. credit instit. and business credit instit.)  
Housing credit institutions  
Insurance Companies: Life insurance companies  
Nonlife insurance companies  
Pooled Investment Schemes: Mutual funds

Private credit (Source b):
Banklike Institutions: Finance companies  
Mortgage companies (local govt. credit instit. and business credit instit.)  
Housing credit institutions  
Insurance Companies: Life insurance companies  
Nonlife insurance companies

Switzerland

Source:  
(a) Banque Nationale Suisse, Les banques suisses en ...  
(b) Swiss National Bank, Monthly Bulletin  
(c) IFS

Time span: 1980-97

Assets:
Banklike Institutions (Source a): Private banks (trust accounts, security companies)  
Mortgage banks  
Clearing banks (3 banks, one owned by agricultural coop, one by regional banks, the third is an intl. clearing bank  
Pooled Investment Schemes: Investment funds (Source b)

Private credit (Source c):
Insurance Companies: Life insurance offices
Taiwan

Source: Central Bank of China, Financial Statistics Monthly
Time span: 1980-97

Assets:
Banklike Institutions
Credit cooperative associations
Credit departments of farmers’ and fishermen’s associations
Postal Savings System
Bills finance companies
Fuh-Hua securities finance companies
Investment and trust companies

Insurance Companies
Life insurance companies
Property and casualty insurance companies

Private credit:
Lines included are: loans, securities private sector, corporate bonds and commercial papers

Thailand

Sources: (a) Bank of Thailand, Quarterly Bulletin
(b) IFS
Time span: 1980-97

Assets (Source a):
Banklike Institutions
Government Savings Bank
Finance and securities companies

Development Banks
Bank for Agriculture and Agricultural Cooperatives
Government Housing Bank
Industrial Finance Corporation of Thailand
Export-Import Bank

Private credit (Source b):
Banklike Institutions
Government Savings Bank
Finance and securities companies

Development Banks
Bank for Agriculture and Agricultural Cooperatives
Government Housing Bank
Industrial Finance Corporation of Thailand
Export-Import Bank

Tonga

Source: IFS
Time span: 1980-97

Private credit:
Development Banks
Tonga Development Bank

Trinidad and Tobago
Sources: (a) Central Bank of Trinidad and Tobago, Quarterly Statistical Digest  
(b) IFS  
Time span: 1980-96

**Assets (Source a):**
- Banklike Institutions: Finance companies & merchant banks  
  Trust and mortgage finance comp  
  Thrift institutions  
- Insurance Companies: Life insurance companies  
- Development Banks

**Private credit (Source b):**
- Banklike Institutions: Finance companies and merchant banks  
  Trust and mortgage finance companies  
  Thrift institutions  
- Insurance Companies: Life insurance companies  
- Development Banks

**Tunisia**

Source: Banque centrale de Tunisie, Statistiques financieres  
Time span: 1990-1997

**Assets:**
- Banklike Institutions: Leasing companies  
  Off-shore banks  
- Development Banks: Development Banks

**Private credit:**
Line included: Creance/credit a l’economie  

**Banklike Institutions: Leasing companies  
Off-shore banks  
Development Banks: Development Banks

**Turkey**

Sources: (a) Central Bank of Republic of Turkey, Quarterly Bulletin of Statistics  
(b) IFS  
Time span: 1987-97

**Assets (Source a):**
- Banklike Institutions: Special finance houses  
- Development Banks: Investment and development banks

**Private credit (Source b):**
- Development Banks: Investment and development banks

**United Kingdom**

Sources: (a) Central Statistical Office, Annual Abstract of Statistics  
(b) Office for National Statistics, Financial Statistics  
Time span: 1980-97

**Assets (Source a):**
- Banklike Institutions: Discount houses  
  Finance houses and other specialized credit-granting institutions (data after 89 from Source b)
Investment trusts

Insurance Companies
- Insurance companies - long term
- Friendly societies (included with life insurance)
- Insurance companies-other than long-term

Private Pension Funds
- Self-administered pension funds
- Industrial and provident societies

Pooled Investment Schemes
- Unit trusts

Private credit (Source a):
Included lines are: company securities, loans and mortgages

Banklike Institutions
- Finance houses and other specialized credit-granting institutions (data after 89 from Source b)
- Investment trusts

Insurance Companies
- Insurance companies - long term
- Insurance companies-other than long-term

Private Pension Funds
- Self-administered pension funds

Pooled Investment Schemes
- Unit trusts

USA

Source: Federal Reserve System, Flow of Funds Accounts

All asset numbers are total financial assets

Assets:
Banklike Institutions
- Issuers of asset-backed securities
- Finance companies
- Mortgage companies
- Funding corporations (funding subsidiaries, nonbank financial holding companies, and custodial accounts for reinvested collateral of securities lending operations)
- Bank personal trusts and estates

Insurance Companies
- Life insurance companies
- Other insurance companies

Private Pension Funds
- Private pension funds (includes Federal Employees' Retirement System Thrift Savings Plan)

Pooled Investment Schemes:
- Mutual funds and closed-end funds
- Real estate investment trusts

Development Banks
- Government-sponsored enterprises (Federal Home Loan Banks, National Mortgage Ass., Federal Home Loan Mortgage Corp., Farm Credit System, the Financing Corp., the Resolution Funding Corp., and the Student Loan Marketing Ass.) and federally related mortgage pools (GNMA, FNMA, FHLMC) and Farmers Home Administration pools.

Private credit:
Lines included are: corporate and foreign bonds, corporate equities, other loan and advances, consumer credit and mortgages

Banklike Institutions
- Issuers of asset-backed securities
- Finance companies
- Mortgage companies
- Funding corporations (funding subsidiaries, nonbank financial holding companies, and custodial accounts for reinvested collateral of securities lending operations)
- Bank personal trusts and estates

Insurance Companies
- Life insurance companies
Other insurance companies

Private Pension Funds  Private pension funds (includes Federal Employees’ Retirement System Thrift Savings Plan)

Pooled Investment Schemes  Mutual funds and closed-end funds
Real Estate Investment Trusts

Development Banks  Government-sponsored enterprises (Federal Home Loan Banks, National Mortgage Ass., Federal Home Loan Mortgage Corp., Farm Credit System, the Financing Corp., the Resolution Funding Corp., and the Student Loan Marketing Ass.) and federally related mortgage pools (GNMA, FNMA, FHLMC) and Farmers Home Administration pools.

Uruguay

Source:  Banco Central del Uruguay, Boletin Estadistico
Time span: 1980-1996

Private credit
Line included: credit al sector privado

Banklike Institutions  Banco Hipotecario
S&L associations

venezuela

Sources:  (a) Banco Central de Venezuela, Boletin Mensual
(b) Oficina Central de Estadistica e Informatica, Anuario Estadistico de Venezuela
Time span: 1980-92, 94/95

Assets:
Banklike Institutions (Source a)  Mortgage banks
Venezuela Workers Bank
National S&L System
Finance companies
Investment banks
Leasing companies

Insurance Companies  Insurance companies (Source b)

Pooled Investment Schemes (Source a)  Mutual funds
Money market funds

Development Banks (Source a)  Agricultural Development Bank

Private credit (Source a):
Lines included: sector privado en conceptos monetarios

Banklike Institutions  Mortgage banks
Venezuela Workers Bank
National S&L System
Finance companies (prestamos e inversiones al sector privado)
Investment banks

Pooled Investment Schemes  Mutual funds

Development Banks  Agricultural Development Bank

zimbabwe

Sources:  (a) Reserve Bank of Zimbabwe, Quarterly Economic and Statistical Review
(b) Central Statistical Office, Monthly Digest of Statistics
(c) Annual Report of Zimbabwe Development Bank.
(d) Report of the Registrar of Insurance companies
(e) Reports of the Registrar of Pension and Provident Funds
(f) IFS
Time span: 1980-96

**Assets:**
Banklike Institutions (Source a) Building societies
PO Savings Bank.
Finance houses.

Insurance Companies (Source d) Life insurance companies
Nonlife insurance companies

Private Pension Funds Pension and provident funds (Source e)

Development Banks Agricultural Finance Corporation. (Source b)
Zimbabwe Development Bank (Source c)

**Private credit**
Except for data from source f, included lines are: loans, debentures and stocks/shares

Banklike Institutions (Source f) Building Societies
PO Savings Bank.
Finance houses.

Insurance Companies (Source d) Life insurance companies
Nonlife insurance companies

Development Banks Agricultural Finance Corporation. (Source b)
Zimbabwe Development Bank (Source c)

**Life insurance penetration and density**

Data on life insurance premium volume are from various issues of Sigma

Data on total population and the purchasing power parity conversion factor (local currency unit per international $) are from the electronic version of the World Development Indicators.

Data on GDP in local currency are from the electronic version of the IFS, either line 99B..ZF or, if not available, line 99B.CZF.

The deflators in US dollars are from the IFS, as described in the appendix for section II.

**Section V**

**Stock Market Data**

Data on market capitalization and total value traded are mostly from the IFC’s Emerging Market Database, with additional data from Goldman Sachs (1986)

Data on GDP in US dollars are from the electronic version of the World Development Indicators.

Data on GDP in local currency are from the electronic version of the IFS, either line 99B..ZF or, if not available, line 99B.CZF.

The deflators in local currency and in US dollars are from the IFS, as described in the appendix for section II.

**Bond Market Data**

Data on private and public market capitalization are from the Bank for International Settlement Quarterly Review on International Banking and Financial Market Development. They were downloaded from the BIS’ webpage and are from Table 15: Domestic Debt Securities, by sector and country of issuer.

Data on GDP in US dollars are from the electronic version of the World Development Indicators

The deflators in US dollars are from the IFS, as described in the appendix for section II.
Primary Market Data

Data for the following countries were obtained from Aylward and Glen (1998). They were obtained from national sources. Contributing organizations are:

Argentina  Bolsa de Comercio de Buenos Aires
Brazil    Comissão de Valores Mobiliários, Bolsa de Valores do Rio de Janeiro
Chile     Banco Central de Chile, Superintendencia de Valores y Seguros
China, P.R. China Securities Regulatory Commission
Columbia  Superintendencia de Valores, Banco de la República
Hong Kong Hong Kong Monetary Authority
Hungary   Hungarian State Treasury, Government Debt Management Agency
India     Reserve Bank of India
Malaysia  Kuala Lumpur Stock Exchange, Bank Negara Malaysia
Indonesia Capital Market Supervisory Agency
Jamaica   The Jamaica Stock Exchange
Kenya     Capital Markets Authority
Korea     The Bank of Korea
Mauritius Bank of Mauritius, Stock Exchange Commission
Mexico    Bolsa Mexicana de Valores, Comisión Nacional Bancaria y de Valores, Banco de México
Morocco   Bank Al-Maghrib, Moroccan Securities Commission
Pakistan  Corporate Law Authority, Karachi Stock Exchange (Guarantee) Ltd.
Peru      Comisión Nacional Supervisora de Empresas y Valores
Philippines Bangko Sentral Pilipinas
Portugal  Comissão do Mercado de Valores Mobiliários
Singapore Monetary Authority of Singapore
Sri Lanka Colombo Stock Exchange, Securities and Exchange Commission of Sri Lanka
Taiwan, R.C. Central Bank of China
Thailand  Bank of Thailand, Securities and Exchange Commission, The Stock Exchange of Thailand
Tunisia   Conseil du Marché Financier
Turkey    Capital Market Board of Turkey
Venezuela Comisión Nacional de Valores

Germany  OECD Financial Statistics Monthly
Japan    OECD Financial Statistics Monthly
United States OECD Financial Statistics Monthly
Great Britain OECD Financial Statistics Monthly

The following country data were taken from OECD Financial Statistics Monthly. Listed will be the country and line numbers for equity and debt issues.

Austria  Shares: A.1 Bonds: B.1.1 + B.1.2 c+d+e
Canada   Shares: A.1 Bonds: B.1.1 + B.1.2 d+e+f+g
Denmark  Shares: A.1 Bonds: B.1.1 c+d+e
Finland  Shares: N/A Bonds: B.1.1 c+d+e + B.1.2 c+d+e
France   Shares: A.1 +b+c Bonds: B.1.1 c+d+e
Greece   Shares: A.1 b+c Bonds: B.1.1 c+d+e
Italy    Shares: A.1 Bonds: B.1.1. c+d+e
Luxembourg Shares: A.1 Bonds: B.1.1 c+d+e B.1.2 e
Netherlands Shares: A.1 b+c Bonds: B.1.1 c+d+e1+e2+ B.1.2 e
Norway   Shares: N/A Bonds: B.1.1 + B.1.2 c+d+e
Portugal Shares: A.1 Bonds: B.1.1 + B.1.2 c+d+e
Spain    Shares: A.1 Bonds: B.1.1 c+d+e
Sweden   Shares: A.1 a+b+c Bonds: B.1.1 c+d+e
Switzerland Shares: A.1.1 a+b+c Bonds: B.1.1 c+d+e + B.1.2 c+d+e