Micro, Small, and Medium Enterprises
Around the World: How Many Are There, and What Affects the Count?

Khrystyna Kushnir, Melina Laura Mirmulstein, and Rita Ramalho

This note provides an overview of new data on MSME (micro, small, and medium enterprise) Country Indicators for 132 economies. There are 125 million formal MSMEs in this set of economies, including 89 million in emerging markets. Descriptive statistical analysis is presented on the relationship between formal MSME density (number of formally registered MSMEs per 1,000 people) and key obstacles for MSMEs, such as access to finance and informality. This analysis shows that formal MSMEs are more common in high-income economies, but that in low- and middle-income economies, MSME density is rising at a faster pace. Second, although there is significant variance in the countries’ definitions of MSMEs, around a third of the countries covered define MSMEs as having up to 250 employees. Third, formal MSMEs employ more than one-third of the world’s labor force, but the percentage drops significantly with income level. Fourth, MSMEs are more likely to identify access to finance as their biggest obstacle than are large firms. In fact, in economies with a higher percentage of firms with no formal credit, MSME density is lower. Finally, a larger informal sector is associated with lower formal MSME density. Measures of barriers to firm entry and exit, such as the minimum capital requirement and the recovery rate in case of bankruptcy, are also associated with lower formal MSME density.

MSME Country Indicators

MSME Country Indicators record the number of formally registered MSMEs across 132 economies. This database is current as of August 2010 and expands on the January 2007 “Micro, Small, and Medium Enterprises: A Collection of Published Data” edition. The new data can be found at http://www.ifc.org/msmecountryindicators

More specifically, the MSME Country Indicators database contains information on the following:
• The total number of formal MSMEs in the economy and the number of MSMEs per 1,000 people (MSME density);
• A breakdown into micro, small, and medium enterprises based on the number of employees, where such data is available, or based on other variables such as annual sales;
• The formal MSME share in total employment;
• The income group of the economy based on GNI per capita, based on the World Bank Atlas method (from the World Development Indicators);
• Time series data going back 20 years for some economies, for the following variables: the number of formally registered MSMEs, MSME density, breakdown by size of MSMEs, and MSME share in total employment; and
• Estimates of the number of MSMEs in the informal sector for 16 economies.

The dataset presents data originally collected by each of the economies included in the sample. All the country sources are listed in the database, the most common being national statistical institutes or special government agencies that monitor and administer programs for MSMEs. As the data was originally collected by different countries, there are limitations regarding the extent to
which the data can be standardized. Where possible, MSMEs are defined as follows: micro enterprises: 1–9 employees; small: 10–49 employees; and medium: 50–249 employees. However, in the majority of countries, this definition did not match the local definition, in which cases the local definition took precedence. Only firms with at least one employee are included.

Of the 132 economies covered, 46 economies define MSMEs as those enterprises having up to 250 employees. For 29 economies, variables other than total employment are used or an MSME definition is not available (Figure 1). Among such other variables are the number of employees differentiated by industry, annual turnover, and investment. Not surprisingly, the overwhelming majority of formal MSMEs globally are micro enterprises, with 83 percent of all MSMEs in this category.2

The data covers only the formal registered sector (except for 16 economies where data is available). This is an important limitation given that informal MSMEs, especially in developing countries, often outnumber formal MSMEs many times over. For example, in India in 2007, there were fewer than 1.6 million registered MSMEs and 26 million unregistered MSMEs, that is, about 17 unregistered MSMEs for every registered one.

Important lessons were drawn from the MSME data while building the MSME Country Indicators, in particular the following:

- MSME data are not always standardized across countries and time. Data on MSMEs are gathered by various institutions using different methods. These institutions define MSMEs based on differing variables and scales and sometimes change their definitions. EUROSTAT’s Structural Business Statistics provides the best example of regional coordination and harmonization of MSME data.

In order to have comparable MSME data, the following steps could be taken:

- Economies should be surveyed using a unified and standardized method;
- Institutions in charge of gathering MSME data should coordinate with each other regarding the variables and methods used to determine the size of the MSME sector.
- These actions can be taken first at the regional level and secondly expanded to the global level. In return, economies would reap the benefits of a cross-country and time-series analysis of MSMEs’ contribution to development.
- MSME data on the informal sector are scarce and are not comparable across countries. This is due to differences in the definition of the informal sector and in estimation methods. Estimates of the informal sector are needed in order to make a comprehensive evaluation of the MSMEs’ contribution to economic development. This data gap could be filled by surveying MSMEs operating in the informal sector or by encouraging institutions that collect MSME data on the formal sector to also develop estimates of the size of the informal sector.
- Time series data is not always available. However, it is crucial for future evaluation of the reforms of business regulations.
- Some institutions collect data on MSMEs only in selected sectors, most often in manufacturing. This limits the possibilities of evaluating MSMEs’ contribution to gross domestic product (GDP) or employment.

For more details on the methodology, please refer to “Methodology note on the MSME Country Indicators.”4

Where are MSMEs Most Common?

In the 132 economies covered, there are 125 million formal MSMEs of which 89 million operate in emerging markets. These results are in line with a recent study published by IFC and McKinsey & Company in 2010, “Two Trillion and Counting,” which found that there are between 80 and 100 million formal MSMEs in emerging markets.
On average, there are 31 MSMEs per 1,000 people across the 132 economies covered. The five countries with the highest formal MSME density are as follows: Brunei Darussalam (122), Indonesia (100), Paraguay (95), the Czech Republic (85), and Ecuador (84). Overall, economies with higher income per capita tend to have more formal MSMEs per 1,000 people (Figure 3). This result is in line with data previously presented in the literature. Klapper et al. (2008) find that business density (which includes both MSMEs and large firms) is positively correlated with income per capita.

**Figure 3** MSME Density and Income per Capita

Economies with higher income per capita tend to have more MSMEs per 1,000 people.

**Figure 4** Median MSME Density by Region

The regional distribution of MSME density is in line with income level distribution.

**Sources:** MSME Country Indicators, World Development Indicators.

**Note:** The results of the regression are statistically significant at the 5 percent level. The figure uses the most recent data available after the year 2000. The figure uses data from 109 economies.5

**Sources:** MSME Country Indicators.

**Note:** Name of region [#] signifies the number of economies from the region included in the analysis. The figure uses the most recent data available after the year 2000. The figure uses data from 117 economies. The figure uses data from 116 economies.

---

4 On average, there are 31 MSMEs per 1,000 people across the 132 economies covered. The five countries with the highest formal MSME density are as follows: Brunei Darussalam (122), Indonesia (100), Paraguay (95), the Czech Republic (85), and Ecuador (84). Overall, economies with higher income per capita tend to have more formal MSMEs per 1,000 people (Figure 3). This result is in line with data previously presented in the literature. Klapper et al. (2008) find that business density (which includes both MSMEs and large firms) is positively correlated with income per capita.

**Figure 3** MSME Density and Income per Capita

Economies with higher income per capita tend to have more MSMEs per 1,000 people.

**Figure 4** Median MSME Density by Region

The regional distribution of MSME density is in line with income level distribution.

**Sources:** MSME Country Indicators, World Development Indicators.

**Note:** The results of the regression are statistically significant at the 5 percent level. The figure uses the most recent data available after the year 2000. The figure uses data from 109 economies.5

**Sources:** MSME Country Indicators.

**Note:** Name of region [#] signifies the number of economies from the region included in the analysis. The figure uses the most recent data available after the year 2000. The figure uses data from 117 economies. The figure uses data from 116 economies.
It is important to note that the analysis presented in this note refers only to correlations and that no causal inferences should therefore be made.

The regional distribution of MSME density is in line with the income level distribution. Consequently, Sub-Saharan Africa and high-income OECD economies are at opposite ends of the spectrum with regard to MSME density (Figure 4). Somewhat surprisingly, Latin America and the Caribbean have more MSMEs per 1,000 people than non-OECD high-income economies. However, once the countries that are heavily dependent on mineral resources (United Arab Emirates, Qatar, Oman, Kuwait, and Saudi Arabia) are excluded from the sample, the MSME density for non-OECD high-income economies is at a similar level to that for Latin America and the Caribbean.

Globally, the number of MSMEs per 1,000 people grew by 6 percent per year from 2000 to 2009 (Figure 5). Europe and Central Asia experienced the biggest boom, with 15 percent growth. Such a fast pace may have resulted from the continuation of post-Soviet privatization in these economies. Another possible contributing factor may be the accession of the Eastern European economies to the European Union (EU).

When considering the MSME growth rate from the standpoint of income per capita (Figure 6), high-income economies grew three times slower than low-income economies and five times slower than lower-middle-income economies. This could be explained by the fact that high-income economies start from a higher base, which is why the growth rate appears slower. In fact, even when taking into account differences in income level, economies with lower bases grow at higher rates. Only low-income economies do not follow the pattern of “higher income – slower growth rate” when compared to middle-income economies, which could be because the informal sector absorbs more MSMEs in low-income economies than in upper- and lower-middle-income countries.

In the high-income economies, MSMEs are not only denser in the business structure, but also employ a higher percentage of the workforce. In half of the high-income economies covered, formal MSMEs employed at least 45 percent of the workforce, compared to only 27 percent in low-income economies (Figure 7).

These indicators highlight the importance of MSMEs to economic development and job creation. Formal MSMEs employ more than one-third of the global population, contributing around 33 percent of employment in developing economies.

From a regional perspective (Figure 8), East Asia and the Pacific have the highest ratio of MSME employment to total employment. This is mainly driven by China, where formal MSMEs account for 80 percent of total employment. The low ratio of formal MSME employment to total employment in South Asia could be explained by the fact that in the three countries covered, Bangladesh, India, and Pakistan, the informal sector is large.
Key Obstacles for Firms and their Connection to MSME Density

The World Bank Enterprise Surveys dataset was used to identify the biggest obstacles for firms worldwide. This dataset covers 98 countries, using the same sampling and surveying methodology. It produces representative estimates for the non-agriculture private sector economy and allows for comparisons of firms of different sizes within a country and globally. The Enterprise Survey data covers several aspects of the business environment and includes both objective and perception-based questions. Among other things, Enterprise Surveys measure the biggest obstacles for firms of all sizes from a list of 15 potential obstacles.

In the Enterprise Surveys dataset, firms are divided into the following categories: small (5 to 9 employees), medium (10 to 99 employees), and large (100 or more employees). Although this categorization may not match the country-level definitions used in the MSME Country Indicators database, the information presented in Enterprise Surveys can still be indicative of the key obstacles facing small and medium-sized firms.

Figure 7
Median MSME Employment (percentage of the total) by Income Group

Formal MSMEs employ more than one third of the world’s labor force, but the percentage drops significantly with income level.

Source: MSME Country Indicators, World Development Indicators database.
Note: Name of the income group [#] signifies the number of economies from the income group included in the analysis. The figure uses the most recent data available after the year 2000. The figure uses data from 103 economies. The results of the regression are statistically significant at the 5 percent level.

Figure 8
MSME Employment vs. Total Employment

In China, MSMEs provide 80 percent of the total employment, driving East Asia and the Pacific to be the leader in the ratio of MSME employment to total employment.

Source: MSME Country Indicators.
Note: Regions are grouped in ascending order based on the ratio of the MSME employment to total employment. Name of the region [#] signifies the number of economies from the region included in the analysis. For the following economies the number of employed by the MSMEs was calculated from the reported percentage of the total employment: Armenia, China, Ecuador, Ghana, Iceland, Israel, Jamaica, Nigeria, Myanmar, Malawi, Malaysia, Pakistan, Singapore, Peru, Uzbekistan and South Africa. The figure uses the most recent data available after the year 2000, from 102 economies.

Figure 9
Six Most Commonly Cited Obstacles by Firms (out of 15)

Electricity and access to finance are the two most cited obstacles for businesses in developing countries, and access to finance affects small businesses much more than it does medium and large businesses.

Source: Enterprise Surveys Dataset.
Note: The data cover 98 countries. The 15 obstacles are access to finance; access to land; business licensing and permits; corruption; courts; crime, theft and disorder; customs and trade regulations; electricity; inadequately educated workforce; labor regulations; political instability; practices of competitors in the informal sector; tax administration; tax rates and transport.
MSME Density and Enterprises Unserved by the Credit Institutions

The smaller the percentage of financially unserved firms, the higher the formal MSME density on average.

Note: The results are statistically significant at the 5 percent level, while controlling for GNI per capita (log) and if an outlier—Indonesia—is dropped. The figure uses data from 52 economies. Included economies: (i) covered in both databases; (ii) data were not extrapolated; (iii) with available GNI per capita, Atlas method.

Figure 10

MSME Density and SME Lending/GDP

MSME density increases with SME lending.

Source: MSME Country Indicators, Financial Access 2010 (Consultative Group to Assist the Poor (CGAP)).
Note: The figure uses data from 101 economies. The results of the regression are statistically significant at the 5 percent level. When controlling for GNI per capita, Atlas method (log), the results are not statistically significant at the 5 percent level. Data for some countries were estimated by the CGAP. Included economies: (i) covered in both databases; (ii) with available GNI per capita, Atlas method.

Figure 11

When presented with a list of 15 possible obstacles, electricity and access to finance are the two most-cited by businesses in developing countries (Figure 9).

Firms of different sizes rank obstacles differently. Access to electricity is a significant constraint overall and affects small, medium, and large enterprises alike. However, more small businesses list access to finance as their biggest obstacle than do medium enterprises, and fewer large firms see it as their biggest obstacle. On the other hand, political instability is more often identified as the biggest obstacle by large firms than by small ones.

It should be borne in mind that this information is based on the perceptions of firms and that it is therefore important to check if it is corroborated by objective measures: Are MSMEs in fact more common where they have easier access to credit? Are they more common where the informal sector is smaller?

Access to Finance

Formal MSME density is on average higher in countries where the percentage of financially unserved firms—that is, those that would like to have a loan or overdraft, but do not have one—is smaller (Figure 10). This finding matches the firm-level data that identifies access to finance as one of the most commonly cited obstacles, in particular by small and medium enterprises (SMEs).

MSME density is not only correlated with whether or not credit is used, but how much. MSME density is lower in economies where MSMEs have some access to credit, but where it is not sufficient (underserved). Furthermore, where SME lending (as a share of GDP) increases, MSME density also increases (Figure 11).

Practices of Informal Sector and Corruption

Competition from the informal sector and corruption among government officials also pose significant challenges for firms. Objective measures of the size of the informal sector, barriers to entry into and exit from the formal market, and the existence of informal payments shed light on the importance of these obstacles to the existence of MSMEs. First, the larger the informal sector in an economy, the lower the formal MSME density (Figure 12). This is likely due to the fact that most MSMEs are more likely to operate in the informal/
**Figure 12**  
**MSME Density and Shadow Economy**

Where the shadow economy is larger, there are fewer MSMEs participating in the formal economy.


Note: The figure uses data from 88 economies. The results of the regression are statistically significant at the 5 percent level. When controlling for GNI per capita, Atlas method (log), the results are not statistically significant at the 5 percent level. Included economies: (i) covered in both databases; (ii) with available GNI per capita, Atlas method.

**Figure 13**  
**MSME Density and Minimum Capital Requirement for “Starting a Business”**

Where it is required to have more minimum capital to start a business, there are fewer MSMEs.


Note: The results of the regression are statistically significant at the 10 percent level, controlling for GNI per capita, Atlas method (log). The figure uses data from 47 economies.

unregistered sector in countries where the informal sector is large.

Second, in economies where it is more costly to start or close a formal business, the density of formal MSMEs is lower. Specifically, the minimum capital for “Starting a Business” and the recovery rate for “Closing a Business” are strongly correlated with MSME density (Figures 13 and 14). In other words, in economies where more minimum capital is required to start a business and where it is harder to recover investments in case of closure of the business, formal MSME density is lower.

Finally, corruption is negatively associated with MSME density, as evidenced by lower MSME density in countries where firms are more frequently asked to make informal payments (bribes) to government officials (Figure 15).
**Figure 15** MSME Density and Percentage of Firms Expected to Make Informal Payments

Where there is more corruption, there are fewer MSMEs participating in the formal economy.

Source: MSME Country Indicators, Enterprise Surveys.

Note: Figure uses data from 70 economies. The results of the regression are statistically significant at the 5 percent level. When controlling for GNI per capita, Atlas method (log), the results are not statistically significant at the 5 percent level.

**References**


**Notes**

1. For the legal definition of the MSMEs adopted by governments, please see the note: “How Do Economies Define MSMEs?”

2. This number was calculated using observations from 93 economies where the breakdown between micro, small, and medium enterprises was available.

3. Excluded economies: Algeria; Argentina; Armenia; Azerbaijan; Belarus; Belize; Bolivia; Burkina Faso; China; Ecuador; Ethiopia; Guyana; Hong Kong SAR, China; India; Indonesia; Korea, Rep.; Kuwait; Kyrgyz Republic; Malaysia; Mauritius; Nicaragua; Panama; Qatar; Singapore; Sri Lanka; Sudan; Thailand; United Arab Emirates and South Africa on the grounds that they apply an MSME definition that uses variables other than total employment or that their MSME definition is not available.


5. Excluded economies: Ethiopia; Puerto Rico; Sri Lanka; Nepal; Panama; Nicaragua; Sudan; Tunisia on the grounds that the data do not cover all sectors of the economy; Albania; Bahrain and Georgia on the grounds that the data come from surveys; Belize; Brunei Darussalam; Guatemala; Guyana; Iran, Islamic Rep. on the grounds that data beyond 2000 are not available.

6. Excluded economies: Ethiopia; Puerto Rico; Sri Lanka; Nepal; Panama; Nicaragua and Tunisia on the grounds that data do not cover all sectors of the economy; Albania; Bahrain and Georgia on the grounds that the data come from surveys; Netherlands Antilles; American Samoa; Bermuda; Guam; Myanmar; Northern Mariana Islands; Qatar and the Virgin Islands (United States) on the grounds that the data on GNI per capita, using the Atlas method, are not available and Belize; Brunei Darussalam; Guatemala; Guyana and Iran, Islamic Rep. on the grounds that data beyond 2000 is not available.

7. Excluded economies: Ethiopia; Puerto Rico; Sri Lanka; Nepal; Panama; Nicaragua and Tunisia on the grounds that the data do not cover all sectors of the economy; Albania; Bahrain and Georgia on the grounds that the data come from surveys; Netherlands Antilles; American Samoa; Bermuda; Guam; Myanmar; Northern Mariana Islands; Qatar and the Virgin Islands (United States) on the grounds that the data on GNI per capita, using the Atlas method, are not available and Belize; Brunei Darussalam; Guatemala; Guyana and Iran, Islamic Rep. on the grounds that data beyond 2000 are not available.

8. This result is statistically significant at the 1 percent level.

9. Excluded economies: Ethiopia; Puerto Rico; Sri Lanka; Nepal; Panama; Nicaragua and Tunisia on the grounds that the data do not cover all sectors of the economy; Albania; Bahrain and Georgia on the grounds that the data come from surveys; Netherlands Antilles; American Samoa; Bermuda; Guam; Myanmar; Northern Mariana Islands; Qatar and the Virgin Islands (United States) on the grounds that the data on GNI per capita, using the Atlas method, are not available and Belize; Brunei Darussalam; Guatemala; Guyana and Iran, Islamic Rep. on the grounds that data beyond 2000 are not available.

10. Excluded economies: Burkina Faso; Dominican Republic; Iran, Islamic Rep.; Sudan; Timor-Leste; Tunisia; Tanzania and Venezuela, RB on the grounds that data on employment by MSMEs are not available.

**Acknowledgments**

The authors would like to acknowledge the valuable contributions of Mohammad Amin, Roland Michelitsch, Peer Stein, and Hugh Stevenson.
11. Excluded economies: Ethiopia; Puerto Rico; Sri Lanka; Nepal; Panama; Nicaragua and Tunisia on the grounds that data do not cover all sectors of the economy; Albania; Bahrain and Georgia on the grounds that data come from surveys; Netherlands Antilles; Bermuda; Guam; Malta; Myanmar; Northern Mariana Islands and Virgin Islands (United States) on the grounds that they are not covered by the Doing Business Index data; Qatar and American Samoa on the basis that the data on GNI per capita, Atlas method are not available. In addition, countries with minimum capital of less than 5 percent of GNI per capita and those with minimum capital above 200 percent of GNI per capita were also excluded to minimize the possibility of results being driven by outliers.

12. Excluded economies: Ethiopia; Puerto Rico; Sri Lanka; Nepal; Panama; Nicaragua and Tunisia on the grounds that data do not cover all sectors of the economy; Albania; Bahrain and Georgia on the grounds that data come from surveys; Netherlands Antilles; Bermuda; Guam; Malta; Myanmar; Northern Mariana Islands and Virgin Islands (United States) on the grounds that they are not covered by the Doing Business Index data; Qatar and American Samoa on the basis that the data on GNI per capita, Atlas method are not available.